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“The weak can never forgive. Forgiveness is the attribute of the strong”
Mahatma Gandhi (1869-1948)

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On the fauna of Macro-Heterocera of Bahçesaray district, with some eco-faunistical notes (Van Province, East Turkey) (Lepidoptera)

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Abstract: On the fauna of Macro-Heterocera of Bahçesaray district, with some eco-faunistical notes (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (3): 121-159, 43 figs. 36 maps. This paper deals with the Macro-Heterocera fauna of Bahçesaray. Totally 55 species of the following 14 families, *Arctiidae*, *Cimeliidae*, *Cossidae*, *Ctenuchidae*, *Drepanidae*, *Lasiocampidae*, *Lemoniidae*, *Lymantriidae*, *Notodontidae*, *Psychidae*, *Sesiidae*, *Sphingidae*, *Thyatiridae*, and *Zygaenidae* are given. The species are listed alphabetically, together with their synonyms, original references, and distributional information as codes. Auto-ecological data to the species are added. Observational information in nature are illustrated. Illustrations of several genitalic preparations are given. Totally 36 triad distributional maps are prepared. Together with the previous contributions, all the species are new to the district. Among them, 7 species are new to Van Province.

Key words: *Arctiidae*, *Cimeliidae*, *Cossidae*, *Ctenuchidae*, *Drepanidae*, *Lasiocampidae*, *Lemoniidae*, *Lymantriidae*, *Notodontidae*, *Psychidae*, *Sesiidae*, *Sphingidae*, *Thyatiridae*, *Zygaenidae*, *Lepidoptera*, auto-ecology, bionomy, Bahçesaray, Van, Turkey.

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Fig. 1 – *Axia theresiae* (Cimeliidae), at rest from Mukus valley 1840m, on 11 6 2016, M. Kemal (Cesa)

Pterygota fauna of Van Province has been studying by the authors since 2001, within the frame of the larger research program, entitled Entomofauna of Turkey. First comprehensive list of the Entomofauna of Van was published by the authors several years ago (Koçak & Kemal, 2012). Meanwhile, the authors published numerous faunistical papers on the pterygota (incl. Lepidoptera) of the neighbour provinces. Van province is administratively divided into several districts. The Entomofauna of three districts, namely, Tuşba, Gevaş and Çatak were also studied and published by the authors (Kemal & Koçak, 2014, 2016a-c). Faunal lists of some other districts are in preparation, i.e., Gürpınar, Başkale, Muradiye, etc.

Bahçesaray is the most mountainous district of Van Province, and its fauna hasnot been investigated for many years. For the first time, the Pterygota fauna of Bahçesaray district, as a private Project of the Cesa, is realized by the authors in 2016. The district was visited by the authors 13 times in the year of 2016, between May and October. Previous articles on this subject were published by the authors (Kemal & Koçak, 2016d-f; Kemal, Koçak & Ecer, 2016; Kemal et al., 2016). In the previous articles, the authors published the first comprehensive results on the Noctuidae and Geometridae of Bahçesaray, containing 262 species (Kemal & Koçak, 2016e-f). In the present paper, 55 species of the following 14 families, Arctiidae (13), Cimeliidae (1), Cossidae (2), Ctenuchidae (1), Drepanidae (2), Lasiocampidae (4), Lemoniidae (1), Lymantriidae (1), Notodontidae (7), Psychidae (2), Sesiidae (3), Sphingidae (10), Thyatiridae (1), and Zygaenidae (7) are under discussion. Next publications will be about the Micro-lepidoptera (Pyralidae, Tortricidae, Pterophoridae, etc.), the butterflies and other pterygot groups recorded in the district. Additional notes and general evaluation on this study will be the final publication. The total number of the examined pterygot species is estimated more than 850.

For the collecting localities and their codes, see the previous paper (Kemal & Koçak, 2016e).

Fauna of the Macro-moths of Bahçesaray district is surprisingly poor. Woodland communities in the district are rather well represented and usually intermixed with the orchards. During the field studies, the authors couldnot record any species of the nocturnal families Saturniidae, and Brahmaeidae. Even the pest species of Lymantriidae, i.e., *Lymantria dispar*, *Euproctis* spp. couldnot be found in the district. *Polymona lapidicola* was also uncommon in the woodland. Contrarily, in the summer period, *Tortrix viridana* and yponomeutid species were

extremely abundant in the area, and active fliers all day long. We were surprised also with the cossid, ctenuchid, and diurnal zygaenid species. Members of these three families were remarkably poor in the district. The author preferred observation on the diurnal sesiid species; therefore only three species were recorded in the district. The rest of the families studied in the present paper are nocturnal in the adult stages.

The observations were mostly made by the first author in the district, and photographed. The photographs of the nocturnal species were taken during field studies either in the dark of the evening, or before sunrise (**Figs. 1-31**). All the collected specimens were prepared, identified by the authors, and included in the Cesa collection.

Faunistically, all the species recorded in the district are new to the fauna of Bahçesaray. Besides, 7 species are reported here as new to the fauna of Van Province. These are as follows; *Lasiocampa grandis*, *Pachypasa otus*, *Furcula interrupta*, *Chamaesphesia proximata*, *Pyropteron triannuliformis*, *Polyplocia korbi*, and *Jordanita (Lucasiterna) subsolana*.

For this publication, triad distributional maps of 36 species are prepared, by using their distributional codes, mentioned in the text (**Maps 1-36**). For further information, see the previous paper (Kemal & Koçak, 2016e).

Arctiidae

263. *Andala semiramis* (Staudinger, 1892) **Figs. 2,3 Map 1**

Synonym(s): *semiramis* Staudinger, 1892; *brandti* Daniel, 1949 Original Reference: *Arctia (Spilarctia) semiramis* Staudinger, 1892, Dt. ent. Z., Iris 4: 161. Type ♂: [Türkei]: Kleinasien: [Erzincan]: Egin [=Kemaliye]. Range (in code): TR IR Lo Bk Ab Khy Oru Fa Sse Ke Ss Mz Th Qm Ak IQ PK 13 24 30 56 65 73 24E 30B 30Bx 30Bd 30Be 30Bh 30D 30Dt 56F 65A 65Am 65Am4 65At 65At5 65Ac 65Ac3 65D 65Dg 65Dx 65F 65Fe 65Fp 65Fz 73C 73Cd

Aestival - autumnal species, uncommon, in the mountain steppes, univoltine. Nocturnal.

264. *Arctia (Epicalia) marchandi* De Freina, 1983 **Fig. 4 Map 2**

Synonym(s): *marchandi* De Freina, 1983. Original Reference: *Arctia villica* ssp. *marchandi* De Freina, 1983, Mitt. münch. ent. Ges. 72: 112-114, fig. Holotype ♂: [Türkei]: Hakkari, Zab-Tal 20km östl. Hakkari 1300-1400m, leg. De Freina. Range (in code): TR IR By Mz Th Elb Kdj Es Ab Oru Ak Ar Km Qz Zj 12 30 49 65 73 12E 12Eb 30B 30Bf 30Bx 30Bd 30Be 30Bg 30C 65A 65Am 65Am1 65Am4 65Ai 65An 65D 65Dh 65Dlc 65Ds 65Du 65N 65Np2 65Nm 73C 73A 73Ab 73Cd

Aestival species, locally common in woodlands, orchards, univoltine. Nocturnal.

265. *Arctia (Eucharia) festiva* (Hufnagel, 1766) **Fig. 5 Map 3**

Synonym(s): *festiva* Hufnagel, 1766; *hebe* Linnaeus, 1767; *interrogationis* Ménétériés, 1863; *sartha* Staudinger, 1886; *nivea* O. Bang-Haas, 1927; *ragusai* Stauder, 1928. Original Reference: *Phalaena festiva* Hufnagel, 1766, Berl. Mag. 3: 416. Type(s): Deutschland: Berlin. Range (in code): PT ES FR Si IT BE NL LU DE AT PL CZ SK HU RO YU AL BG GR Rd TR SY Hal LB IR Ak Shf Zj Tbz Ar Kd Snj Km Ha Ma Ke Kh Fa Hz LV LT MD UA BY KK Ax RU Tv MN CN Ui IMn Hph GG Tbl Bjo Kir Smt Akh AZ Bak Cc AM KG Ssn Tk Ii UZ Fe Man IQ Shq 05 06 12 13 14 16 17 24 25 27 32 36 38 40 42 44 47 49 56 58 60 63 64 65 71 75 05A 06K 06Kc 06R 06Ra 12A 12Ab 12Af 13A 13Ab 13Ax 14E 16A 25F 25T 27B 27D 36F 38F 40C 42B 44A 44L 44Lc 47D 47Da 47F 49F 49Fb 56F 56Fb 56Fh 58G 60C 63F 64A 65A 65An 65Am 65Am1 65E 65Eb 65Ec 65K 65Ky 65Ky1 65Kz 65Kz 65N 65Np 65Nm 71C 75E

Like preceding species, but adults rather vernal. Nocturnal.

266. *Chelis reticulata* (Christoph, 1887) **Fig. 6 Map 4**

Synonym(s): *reticulata* Christoph, 1887 Original Reference: *Arctia maculosa* var. *reticulata* Christoph, 1887, Stettin ent. Ztg. 48: 163. Range (in code): TR Cc GG AZ Nv IR Th GlS Gor AM RU Da Kb Teb TM Kp LB IR 04 07 08 24 25 30 36 42 49 53 58 60 65 69 70 75 04D 04Da 07B 08H 25A 25C 25Ca 25R 30D 30Da 36F 42B 42Bb 49E 49Ea 53N 58G 58R 60C 65A 65At 65At5 65G 65Ge 69A 70A 70Ac 75E

Aestival species, rare, local, in the mountain steppes, univoltine. Nocturnal.

267. *Euplagia quadripunctaria* (Poda, 1761) **Figs. 7, 9 Map 5**

Synonym(s): *quadripunctaria* Poda, 1761; *hera* Linnaeus, 1767; *magna* Spuler, 1910 nec Hol., 1897; *latefasciata* Bubacek, 1915. Original Reference: *Phalaena quadripunctaria* Poda, 1761, Insecta Mus. Graecensis: 89. Type(s): {Austria}: Graz. Range (in code): PT ES FR Co Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd CY TR LV LT RU Ur VI Pt MD UA BY SY LB Bsa IR Ak Gh Mz Ar GlS Se Kh Cc AM Dar AZ Adz Kir GG Bjo Lag Mng Tbl TM Kp 01 05 06 07 08 09 13 14 16 21 25 29 31 33 34 35 36 41 45 46 48 51 52 53 56 58 60 62 65 75 78 05A 05E 06R 06Re 06Rd 07A 07B 07Bb 07O 08H 09K 09M 13G 13Gü 13Gw 14B 14Bb 14I 14Ib 16A 16C 16F 21N 21Nb

25F 25R 29D 29F 31K 31Ka 31M 34B 34S 35O 36C 36D 41F 46G 46Gf 48D 52H 56F 58I 60H 60Hb 62H 65A 65Ai 65D 65F 65Fm 75F 75Fa 78D 78Da

Aestival species, rare in woodlands, univoltine. Diurnal- nocturnal. Its full grown caterpillar was recorded by the first author at Paşaköy on *Anchusa* sp. (*Boraginaceae*) (**Fig.9**).

268. *Euplagia splendidior* (Tams,1922) Fig. 8 Map 6

Synonym(s): *splendidior* Tams,1922; *tkatshukovi* Sheljuzhko,1935. Original Reference: *Callimorpha quadripunctaria* ssp. *splendidior* Tams,1922, Entomologist 55: 196-197. Holotype ♂: Iran: N.W. Persia: Harir. Range (in code): IR Ab Oru Kd Mrv Km Il By Es Lo Fa Shr Ma IQ Rwz Shq Mos TR Cc AM Eri Ink AZ Nv Ord 30 36 56 62 65 73 76 30B 30Ba 30Bf 30Bg 30Bh 30Bj 30Br 30C 30Cd 30D 30Db 30Dp 30Dt 36C 36D 36Db 36Dd 56F 56Fa 56Fc 56Fx 65A 65Ai 65Am 65Am4 65Ac 65Ac3 65D 65Df 65Dm 65F 65Fc 65Fp 65Fz 65K 65Kp 65L 65Lb 65N 65Np 65Nr4 65Nm 73A 73Ad 73D 73Dg 76C

Like preceding species, uncommon, in woodlands, orchards, mountain steppes, univoltine. Commoner than the preceding species. Its flight is sympatric with *quadripunctaria* at several localities, also in Bahçesaray. Diurnal- nocturnal.

269. *Lacydes spectabilis* (Tauscher,1806) Map 7

Synonym(s): *spectabilis* Tauscher,1806; *intercissa* Freyer,1842. Original Reference: *Noctua spectabilis* Tauscher,1806, Mém. Soc. nat. Univ. imp. Moscou 1: 212 fig. Type(s): Russia. Range (in code): RU KG Ssn Uk T-S Sb TM AF Bd CN Ui Kml MN IR Th Dam Elb Mz Gls Kp Kh Fa Sse Ak Mz Gls Ma Se IQ TR Cc AM KK 03 06 13 23 24 25 26 30 38 42 46 50 51 56 58 65 68 70 71 73 03A 03Aa 06R 06Ra 06Y 13A 13Ab 13Ax 13C 13Cf 13G 13Gw 13Gü 23I 25A 25N 25Na 26K 30B 30Bg 30D 30Da 42B 46G 50G 51B 51Bc 56F 58G 58Gg 65A 65Ab 65B 65Bk 65D 65Da 65F 65Fe 65Fş 65K 65Ku 68B 70A 70Ac 71B 73C 73Cd 73Ce

Its adult autumnal, locally common in the mountain steppes, univoltine. Nocturnal.

270. *Manulea (s.str.) complana* (Linnaeus,1758) Fig.34 Map 8

Synonym(s): *complanata* Linnaeus,1758; *ochrocephala* Fourcroy,1785; *sericea* Gregson,1860; *molybdeola* Guenée,1861; *balkanica* Daniel,1939. Original Reference: *Phalaena complana* Linnaeus,1758, Syst. Nat. (Edn.10): 512. Type(s): [Europa]. Range (in code): FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR CY TR DK NO SE FI EE LV LT RU MD UA BY Cc GG Bjo Smt Mng Dar AM Da Der KG Lps IR Gls 05 06 08 14 16 18 25 33 34 36 39 44 46 58 65 75 05A 06R 06Rb 06Re 08H 14B 16A 18F 25F 33A 33Ac 34A 34S 36D 36F 39H 44I 44Ic 58G 58Gi 65A 65Ac 65Ac3 65D 65Df 75F 75Fe Prep. no: GP2154♂ GP2257♂ GP2370♂

Its adult aestival, locally common at rocky places, where algae grow, univoltine. Nocturnal. New to the fauna of Van Province!

271. *Manulea (s.str.) palliatella* (Scopoli,1763) Fig. 35 Map 9

Synonym(s): *palliatella* Scopoli,1763; *unita* [Denis & Schiffermüller],1775; *palleola* Hübner,[1808]; *gilveola* Ochsenheimer,1810; *vitellina* Treitschke,1834; *flaveola* Rambur,1866. Original Reference: *Phalaena palliatella* Scopoli,1763, Entomologia Carniolica: 248. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): AET DZ Bsk ES FR Sa Si IT BE DE CH AT PL CZ SK HU RO YU AL BG GR TR IR Elb IQ Brs Cc GG Bjo Smt Da Der LT RU MD UA BY KG Lps AF Nu 01 06 10 12 14 24 25 39 45 60 62 65 71 81 01H 06R 06Re 06Rd 10D 12A 12Aa 25F 39H 45K 62E 65A 65Ac 65Ac3 65B 65Bk 65D 65Df 81F Prep. no: GP2371♂

Like the preceding species. Nocturnal. New to the fauna of Van Province!

272. *Paidia (s.str.) rica* (Freyer,[1855])

Synonym(s): *murina* Hübner,1790 (preocc.); *rica* Freyer,[1855] Original Reference: *Lithosia rica* Freyer,[1855], Neuere Beitr. Schmett. 7: 73, Tab. 642, f.3. Type: Schweiz [for the validity of the name, see Koçak,1980, Communs Fac. Sci. Univ. Ankara (Ser C3, Zool.) 24: 10]. Range (in code): AET DZ Sbd PT ES FR IT BE DE CH AT CZ SK HU GR Cr TR 08 30 44 56 65 73 08H 08Ha 30B 30Bx 30Bc1 44L 44Lc 56F 65A 65Ai 65D 65Dh 65Du 65Dv 73A 73Ad 73Ad2

Like the preceding species. Nocturnal.

273. *Phragmatobia placida* (Frigalsky,1835) Fig. 10 Map 10

Synonym(s): *placida* Frivaldsky,1835 Original Reference: *Euprepia placida* Frivaldsky,1835, Köslések a balkany vidékén tett termés. utazasrol. 2: 271, pl.7 f.5. Type(s): [Bulgaria]: Philippopolis. Range (in code): YU AL BG GR TR RU UA Cm Cc AM AZ Nv Ord AF TM LB Ale Bsa IQ IR Elb Th Kdj Mz Ak Tbz Kdv IL Pa 04 05 06 10 13 21 23 30 31 32 33 36 42 43 46 50 51 55 56 58 60 65 73 04I 05A 06R 06Rb 06Rk 13F 13G 13Gz 21N 21Nb 23M 30B 30Bd 30Bx 30Bg 30Bh 31M 36F 42B 42J 42X 42Xa 43M 46G 46Gf 50G 50Gc 51D 51De 55F 56F 58G 58Gi 60C 65A 65Ai 65D 65Ds 65F 65Fg 65Fp 65Fz 73C 73A 73Ab 73Cd

Vernal species, uncommon in woodlands, orchards, mountain steppes, univoltine. Nocturnal.

274. *Tyria jacobaeae* (Linnaeus,1758) Map 11

Synonym(s): *jacobaeae* Linnaeus,1758; *senecionis* Godart,1823; *confluens* Schultz,1908. Original Reference: *Phalaena jacobaeae* Linnaeus,1758, Syst. Nat. (Edn.10)1: 511. Type(s): [Europa]. Range (in code): PT ES FR Co Sa Si IT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU MD Cm UA BY GG Lag Der Da Cc AZ AM Nv Sb KG Lps UZ KK KG TJ CN Ui CA BCo US Cf Org TS NZ AU 04 05 06 07 13 16 19 23 25 29 30 34 36 48 60 65 71 04D 04Da 04I 04Ia 05A 06A 06Aa 06K 06Kc 06R 06Ra 06Rd 07C 13G 13Gw 13Gs 16A 19P 23M 25A 25D 29C 30B 30Bd 30Bx 30Bg 30D 30Da 34S 36D 60H 65A 65Am 65Am1 65Am4 65Bx 65G 65Ge

Like the preceding species, univoltine. Diurnal- nocturnal.

275. *Utetheisa (s.str.) pulchella* (Linnaeus,1758) Map 12

Synonym(s): *pulchella* Linnaeus,1758; *pulchra* [Denis & Schiffermüller],1775; *thyter* Butler,1877; *shyama* Bhattacharjee & Gupta,1969; *menoni* Bhattacharjee & Gupta,1969. Original Reference: *Phalaena pulchella* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 534. Syntypes: Europa, Mauritania. Range (in code): CV Az PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Rd Cr TR DK LV LT RU MD UA BY IL Pa Hf IR Kz Ss Kd Ke CY GG AZ Len Cc AM KG ZR ZA Ec Nta Kzu Gau Pre Spb Mdk Ent Tva Lpo AF Ca Kab Asm Nu Bsg CN Ui GP IQ Agh TH CMa Knc Sbu Ab Oru Gh Mz Kh Gls Se Th Qz Kd Bne Mrv Snj Lo Km Il Es Yz By Bk Fa Ke Ss Hz Bu Kz Tbl Bjo Smt Lag Der Da Bak Len PK Nwf Pes Bt Skd Bl Cp SO IN Cn Md ID Ja VN LK Cob Pdy Dck AU Bhh SO Zai YE Ad MA DZ TN Afl Ess Tun Tgr Khh Btma Ktr BSa Gha Dje Ges Agi Gle Hdd Bsk Ah Ajj 01 05 07 13 16 21 30 31 33 36 44 46 47 48 56 58 63 65 73 80 01F 01H 05A 07B 07M 13F 16A 21F 30B 30Bh 31K 31Ka 31Ka5 33F 36D 36Db 44I 44Ic 44L 44Lb 44Lc 47D 56A 56F 56Fh 58N 63B 63D 65A 65Am 65Am4 65F 65Fe 65N 65Np 65Nm 73D 73Db 80A

Vernal - aestival species, uncommon, more than one generation. Diurnal- nocturnal.

Cimeliidae**276. *Axia (Epicimelia) theresiae* (Korb,1900) Figs. 1, 11 Map 13**

Synonym(s): *theresiae* Korb,1900 Original Reference: *Epicimelia theresiae* Korb,1900, Dt. ent. Z., Iris 12: 300-302. Syntypes: [Türkei]: Konia. Range (in code): TR Cc IR Ab Oru SY Hal IQ 06 13 24 29 30 36 42 44 49 50 58 65 70 73 76 06A 06Aa 06C 06Cb 06N 13G 13Gt 13Gw 13Gs 29F 30B 30Ba 30Be 30Bh 30Bj 30Bj1 30C 30Cb 30D 30Da 30Dt 36D 36Db 42R 44F 44Fa 49F 49Fb 58G 65A 65Ai 65Am1 65Am4 65An 65D 65Dl 65Ds 65Dt 65F 65Fe 65Fp 65Fz 65Fm 70D 73C 73Cd 76A

Its adult vernal-aestival, locally common in the mountain steppes, univoltine. Nocturnal.

Cossidae**277. *Cossulus argentatus* (Staudinger,1887) Map 14**

Synonym(s): *argentatus* Staudinger,1887; *araxes* De Freina,1982 Original Reference: *Cossulus argentatus* Staudinger,1887, Stettin ent. Ztg. 48: 91. Type ♂: [Türkei]: "Alexandropol (südwestl. Caucasus Gebiete, Armenien)". Range (in code): TR Cc AM AZ Nv Ord LB Bsa IR Elb Kdv 04 12 13 25 30 36 42 46 49 51 58 65 69 73 76 04D 04Da 04I 12C 13A 13Ab 13Ax 25R 25Rb 25T 30B 30Bl 30D 30Da 36F 36Fa 36Fb 49E 49Ea 51B 58G 58Ga 58Gg 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65F 65Fl 65Fz 65G 65Ge 69B 69Ba 73C 73Cd 76C

Its adult aestival, locally common in the mountain steppes, univoltine. Nocturnal.

278. *Dyspessa ulula* (Borkhausen,1790) Fig. 12 Map 15

Synonym(s): *ulula* Borkhausen,1790; *hepialica* Borkhausen,1790; *hepialina* Hübner,1792; *marmorata* Rambur,1858; *fuscula* Staudinger,1892; *affinis* Rothschild,1917; *maroccana* Rothschild,1917; *pallida* Rothschild,1917 *nec* Roth.,1912. Original Reference: *Phalaena ulula* Borkhausen,1790, Naturg. Eur. Schmett. 3: 142. Type: Germany: Frankfurt. Range (in code): PT ES FR IT DE CH AT PL CZ SK HU RO YU AL BG GR Rd Cr TR RU MD UA BY CY LB Bei IR Kd KG Ssn IQ Mkp GG Tbl Bjo Kir Kak Cc AZ 05 06 07 13 14 16 17 20 21 26 33 36 42 45 46 48 58 60 65 66 05A 06R 06Rb 06Rd 13A 13Ab 13Ax 16A 42B 48F 58N 65A 65Ai 65D 65Dh 65N 65Np2 65Nr2 65Nm

Like the preceding species.

Ctenuchidae**279. *Dysauxes (s.str.) famula* (Freyer,1836) Fig. 36 Map 16**

Synonym(s): *famula* Freyer,1836; *hyalina* Freyer,1845; *ragusaria* Zickert,1904; *herthina* Stauder,1921; *burgeffi* Draudt,1931; *taurica* Draudt,1931; *pseudoservula* Naufock,1933; *pontica* Friese,1959; *sofiata* De Laever,1983; *lucana* De Laever,1983. Original Reference: *Lithosia famula* Freyer,1836, Neuere Beitr. 2: 143. Type(s): [Slovenien]: Fiume [Rijeka]. Range (in code): FR Co Si IT MT CH AT HU RO SS B-H HV MK YU AL BG GR Rd Cr TR Cc RU Us MN IQ Ry Rwz Kq IL Pa Hf IR Mz Gls Kh TM Kp Ch 01 04 06 07 08 10 11 12 13 14 16 17 21 23 25 30 31 33 34 36 38 42 44 45 46 50 56 59 60 65 71 73 76 01A 04A 06R 06Rb 06Re 07B 08H 10P 11E 12E 13G 13Gü 13Gw 21C 23I

25F 30B 30Bh 30Bd 30Bx 30Be 31K 31Ka 33F 33G 33O 33N 33P 36F 38H 38Hc 42D 44I 44Ic 44O 46D 46G 46Gf 46Gi 50G 56E 56Eb 56F 59D 60C 65A 65Am 65Am4 65D 65Df 65F 65F1 65Fp 65Fz 65N 65Np2 65Nm 73C 73Ce 73D 73Db 76C Prep. No: GP2473[♂]

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal.

Drepanidae

280. *Cilix asiatica* A.Bang-Haas,1907 Fig. 13 Map 17

Synonym(s): *asiatica* A.Bang-Haas,1907; *depalpata* Strand,1913 Original Reference: *Cilix glaucata* var. *asiatica* A.Bang-Haas,1907, Dt. ent. Z., Iris 20: 70. Syntypes: [Türkei]: "Klein-Asien: Syrien: Mardin, Amasia". Range (in code): GG Smt Akh Cc AM AZ Len UA Cm TR IL Hf Pa LB Bsa IR Elb IQ AF Srb Bsg 05 06 07 10 12 17 21 30 31 33 36 42 45 46 47 49 50 56 58 60 65 71 73 05A 06R 06Rb 07A 07C 17M 21N 21Nh 30B 30Bh 31K 31Ka 36D 36Db 49E 49Ea 56F 58N 60G 65A 65Ai 65D 65Ds 65F 65Fp 65Fz 65N 65Np6 65Nm 73C 73Cd

Its adult aestival, locally common in the mountain steppes, univoltine. Nocturnal.

281. *Watsonalla binaria* (Hufnagel,1767) Fig. 14 Map 18

Synonym(s): *binaria* Hufnagel,1767; *falcata* Fabricius,1775; *falculataria* Villers,1789; *falcatalis* Haworth,1802; *uncula* Hübner,[1802] Original Reference: *Phalaena binaria* Hufnagel,1767, Berl. Mag. 4: 516. Type: [Germany]: Berlin. Range (in code): DZ Sbd Agi Ges DhM TN ES FR Co Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR Cr TR Cc GG Lag IQ Brs LB Bsa DK SE FI LV LT RU MD UA BY 05 06 08 10 12 13 14 16 21 30 31 42 46 49 50 53 56 62 65 71 73 75 05A 06R 06Rb 06Re 12E 12Ec 13G 13Gg 16A 21N 21Nb 21Nh 30B 30Ba 30Bh 31K 31Ka 31Ka3 31Ka7 42B 49E 49Ea 49F 49Fb 56F 56Fo 56Fn 56F6 62E 65A 65Ai 65An 65D 65Dl 65Dlc 65Ds 73Ac 73Ac2 73A 73Ad 73Ad2 73C 73Cd 75F 75Fd

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal.

Lasiocampidae

282. *Lasiocampa eversmanni* (Kindermann,1843) Fig. 15 Map 19

Synonym(s): *eversmanni* Kindermann,1843; *eversmanni* Freyer,1844; *attrita* Stshetkin,1960. Original Reference: *Gastropacha eversmanni* Kindermann,1843, [in] Eversmann, Bull. Mosc. 1843 (3): 542, Pl.10 figs. 2a-c. Range (in code): BG TR AF Srb Sfk IR Mz Kh TM Kp UZ TJ KK Ik KG TrA Aa DsA Tar IQ Brs Dia Ry Rwz JO Amm GG AZ Kir Tbl Bak AM Cc RU Ao 01 04 06 07 13 19 21 23 25 30 36 44 46 50 56 58 62 63 65 70 71 73 01L 01La 04D 04Da 06D 06Da 06N 06Ne 06R 07C 13A 13Ab 13Ax 13C 13Cf 13F 19P 21N 21Nb 23I 30B 30Bh 30Bg 30D 30Dh 44I 44Ic 56A 56Aa 56F 58N 63M 65A 65Am 65Am4 65Ai 65B 65Bn 65Bn1 65D 65Df 65Dt 65F 65F1 65F5 65Fp 65Fz 65G 65Ge 65Gc 65K 65Kd 65Kg 65Ku 65N 65Ne 65Np 65Np2 65Np7 65Np8 65Nm 73D 73Db

Its adult autumnal, locally common in the mountain steppes, univoltine. Nocturnal.

283. *Lasiocampa grandis* (Rogenhofer,1891) Map 20

Synonym(s): *grandis* Rogenhofer,1891; *salomonis* Staudinger,[1892] Original Reference: *Gastropacha trifolii* var. *grandis* Rogenhofer,1891, Verh. zool.- bot. Ges. Wien 41: 86. Syntypes ♂♀: "Syrien". Range (in code): MK AL BG GR TR IQ Ama Agh Amr LB Bsa IL Pa Hf Cc AM Arr AZ Nv GG IR Fa Shr 01 06 07 11 12 13 14 19 31 34 41 42 44 46 50 56 62 65 73 06R 06Rb 06Re 07C 12A 12Aa 12E 13C 13Cf 13G 13Gü 13Gw 19P 31K 31Ka 34S 46G 46Gf 56A 56Aa 56F 56Fo 62E 65A 65Ai 73D 73Df

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal. New to the fauna of Van Province!

284. *Pachypasa otus* (Drury,[1773]) Fig. 16 Map 21

Synonym(s): *#otus* Drury,[1770]; *otus* Drury,[1773] Original Reference: *Sphinx otus* Drury,[1773], Illustr. Nat. Hist. Exot. Ins. 2: index to 1. Type: [Turkey]: "Smyrna" [Izmir Prov.]. Range (in code): Si IT RO YU AL BG GR Rd Cr Ae Nx Sms CY TR LB Bsa IR Fa IQ AZ AM GG Cc 05 16 21 31 33 35 56 62 65 73 05A 16A 31K 31Ka 31Ka5 33A 33Ac 33G 35U 56F 56Fb 56Fq 65A 65Ai 73A 73Ad 73Ad2

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal. New to the fauna of Van Province!

285. *Phyllodesma (s.str.) tremulifolium* (Hübner,[1810]) Fig. 17 Map 22

Synonym(s): *betulifolium* Ochsenheimer,1810 nec Esp.,1782; *tremulifolium* Hübner,[1810]; *danieli* De Lajonquière,1963; *#tremulifolium* De Freina,1999 Original Reference: *Bombyx tremulifolia* Hübner,[1810], Samml. eur. Schmett., Bombyces 148, pl. 44 figs. 191, 192. Syntypes ♂♀: Deutschland. Range (in code): PT ES FR Si IT BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR Cc GG Smt Bjo Lag EE RU MD UA BY KK Ik CN Ui Ii 01 05 06 07 10 12 13 24 25 30 31 32 33 36 42 46 49 56 58 60 62 64 65 71 01H 05A 05G 06R 06Re 07B 07C

12A 12Ac 12E 12Ea 12Ed 12A 13C 13Cf 13G 13Gg 13Gü 13Gs 13Gw 30B 30Bh 30D 30Da 31K 31Ka 31Ka3 32C 33A 33Ac 33G 36F 42R 49E 49Ea 56F 56Fs 58G 62E 65A 65Am 65Am4 65Ai 65D 65Dm 65Ds 65F 65Fe 66P

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal.

Lemoniidae

286. *Lemonia pia* Püngeler, 1902 Fig. 18 Map 23

Synonym(s): *pia* Püngeler, 1902 Original Reference: *Lemonia pia* Püngeler, 1902, Dt. ent. Z., Iris 14: 143. Syntypes 2♂: Palaestina: "Todten Meer". Range (in code): IL Pa JO TR Cc IR Qz 01 04 07 21 25 30 36 44 46 56 58 63 65 73 76 01H 04D 04Da 07K 21F 25F 30B 30Be 36D 36Db 36F 44E 44Ea 56E 56Eb 56F 56Fb 58G 63M 65A 65Am 65Am4 65N 65Np2 65Nm 73C 73Cd

Its adult autumnal, locally common, univoltine. Nocturnal.

Lymantriidae

287. *Polymona lapidicola* (Herrich-Schäffer, [1852]) Map 24

Synonym(s): *lapidicola* Herrich-Schäffer, [1852] Original Reference: *Liparis lapidicola* Herrich-Schäffer, [1852], Syst. Bearb. Schmett. Eur. 6 (55): 52. Type: [Turkey]: "Kleinasien". Range (in code): Sa TR Cc AM AZ Kir SY CY IQ Rwz LB Bsa IL Pa Hf JO 01 05 06 07 14 19 21 23 30 33 35 36 42 44 46 47 48 50 56 63 65 71 73 01H 05A 07B 07Bb 07C 14I 19P 21L 23I 30D 30Dx 33P 36D 36Db 42B 44E 44Eh 44F 44Fa 44L 44Lc 46G 46Gf 46Gi 48D 50G 56E 56Eb 56F 56Fb 56Fo 63M 65A 65Am 65Am4 65Ac 65Ac3 65D 65Df 65Dv 65Fz 65K 65Kb 71B 73A 73Ab 73D 73Da 73Df 73Dfc 73E 73Eb Prep. no: GP732♂

Its adult aestival, locally common in the woodlands, univoltine. Nocturnal.

Notodontidae

288. *Cerura (s.str.) vinula* (Linnaeus, 1758) Fig. 19 Map 25

Synonym(s): *vinula* Linnaeus, 1758; *minax* Hübner, [1803]; *teberdina* Kornejev, 1939 Original Reference: *Phalaena vinula* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 499. Range (in code): ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR GG Smt Bjo Mng Lag AM AZ Kir Cc TR DK NO SE FI EE LV LT RU Kb Teb MD UA BY IQ Agh IR Ab Oru Ak Shf Kh AF Nu Bsg Kab CN Ui Khr Um 03 06 07 12 13 15 16 24 25 30 31 32 33 34 35 36 42 43 45 46 49 56 58 60 62 64 65 03A 03Aa 04E 04Ea 04I 06R 06Ra 06E 06Ea 07C 13G 13Gw 13Gs 25F 30Bd 30Bx 30Bh 30D 30Da 31A 31Aa 33F 36D 36F 42D 42J 49E 49Ea 56F 56F3 58G 58N 60C 62G 64F 65A 65Am 65Am2 65Am4 65D 65Dc 65Dj 65F 65Fg 65Fz 65N 65Np1 65Nm

Its adult vernal, locally common, univoltine. Nocturnal.

289. *Drymonia velitaris* (Hufnagel, 1766) Map 26

Synonym(s): *velitaris* Hufnagel, 1766; *austera* [Denis & Schiffermüller], 1775; *bifasciata* Villers, 1789 Range (in code): PT ES FR IT BE NL DE CH AT PL CZ SK HU RO YU BG GR TR Cc GG Smt Bjo Lag Mng AM 12 13 16 25 29 30 36 37 46 49 53 55 60 61 65 12A 12Aa 12E 13G 13Gy 16A 25D 25F 29A 30B 30Bd 30Bx 36F 37C 49E 49Ea 53N 55E 55H 60C 61L 65A 65Ai 65F 65Fe

Its adult vernal, locally common in the woodlands, univoltine. Nocturnal.

290. *Furcula interrupta* (Christoph, 1867) Fig. 20 Map 27

Synonym(s): *interrupta* Christoph, 1867; *leucotera* Stichel, 1911; *sureyae* Rebel, 1933; *hoeferi* Bytinski-Salz, 1936; *leucotera* Lenek, 1969; *#syreyae* Schintlmeister, 1989. Original Reference: *Harpyia interrupta* Christoph, 1867, Stettin ent. Ztg. 28: 233-234. Syntypes ♂♀: Russia, Sarepta. Range (in code): TR IR Ha Cc AZ Nv Ord Kir Elb Th Kdj Tbz IQ Shq Bgd IL Pa LB Bsa Bei SY Hms CY RU Sr UZ Fe Man CN Ui Ku 01 02 05 06 07 12 15 19 26 30 31 33 40 42 44 46 56 60 62 63 65 71 01A 02E 06R 06Ra 06K 06Kc 07B 19C 19P 26K 31A 31Aa 31K 31Ka 33P 40G 42B 42D 56F 56Fa 56Fq 60C 62G 63E 65A 65Ai 71B 71Ba Prep. no: GP477♂

Its adult vernal, locally common, univoltine. Nocturnal. New to the fauna of Van Province!

291. *Harpyia milhauseri* (Fabricius, 1775)

Synonym(s): *milhauseri* Fabricius, 1775; *terrifica* [Denis & Schiffermüller], 1775; *vidua* Knoch, 1781; *albida* Daniel, 1932 Original Reference: *Bombyx milhauseri* Fabricius, 1775; Syst. Ent.: 577. Type(s): [Germania]: Dresden. Range (in code): PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE LV LT RU MD UA BY IQ 05 06 07 10 12 13 14 21 24 30 31 33 37 42 46 48 49 53 56 60 62 64 65 66 71 73 05A 06R 06Ra 06Rb 07B 10U 12A 12Aa 13G 13Gy 14B 21N 21Nh 30B 30Bg 30Bh 31K 31Ka 33G 33F 37P 42B 48G 48Gb 49E 49Ea 53M 53N 56A 56F 56Fb 56F3 56Fa 64F 65A 65Ai 65D 65Ds 65Dy 65F 65Fe 66P 71C 71Cc 71D 73C 73Ce

Its adult vernal, locally common in the woodlands, univoltine. Nocturnal.

292. *Notodonta tritophus* ([Denis & Schiffermüller],1775) Map 28

Synonym(s): #tritophus [Denis & Schiffermüller],1775; phoebe Siebert,1790; perfuscus Haworth,1803; irfana De Freina,1983. Original Reference: *Bombyx tritophus* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 63. Type(s): [Austria]: Vienna district. Range (in code): ES FR IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR Cc GG Lag DK NO SE FI EE LV LT RU MD UA BY 06 13 14 17 24 29 36 43 60 62 65 06R 06Ra 06Rh 06E 13G 13Gg 13Gs 13Gw 17E 29A 29F 36F 43M 60C 62G 65A 65Ai 65An 65F 65Fe

Like the preceding species.

293. *Pterostoma palpium* (Linnaeus,1761) Fig. 21 Map 29

Synonym(s): #palpina Clerck,1759; palpina Linnaeus,1761; caudapiscina Goeze,1783; salicis Germar,1812. Original Reference: *Phalaena palpina* Linnaeus,1761, Fauna Suecica 2: 305. Type: Sweden. Range (in code): DZ Anna PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Lag Smt Bjo AZ Kir DK NO SE FI EE LV LT RU MD UA BY 06 12 13 16 19 24 25 30 32 36 37 42 46 49 50 56 60 65 06R 06Ra 06Rh 12E 13C 13Cf 13F 13G 13Gw 13Gs 13Gy 16A 19P 24G 25F 30B 30Bd 30Bx 30C 30Cd 30D 30Da 36D 36Db 36F 37C 42D 42R 46D 49E 49Ea 50G 50Gd 56F 56F3 56F1 60C 65A 65Ai 65An 65Am 65Am4 65D 65F 65Fe 65Fp 65Fr 65Fz 65Fg 65N 65Np6 65Nm

Its adult vernal, locally common, univoltine. Nocturnal.

294. *Spatalia argentina* ([Denis & Schiffermüller],1775) Fig. 22 Map 30

Synonym(s): argentina [Denis & Schiffermüller],1775 Original Reference: *Bombyx argentina* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 62, Tab. Ia-b fig.2. Type(s): [Austria]: Vienna district. Range (in code): ES FR Si IT DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc IQ LB Bsa 05 06 07 08 10 12 13 14 16 17 20 21 24 30 31 32 33 35 42 46 49 56 61 62 64 65 66 71 73 80 05A 06R 06Ra 06Rb 07C 08H 10D 10N 10P 10U 12A 12Aa 13F 13G 13Gy 13Gg 14B 14Bb 16A 17E 17H 17M 21L 21Lc 21N 21Nb 21Nc 30B 30Bd 30Bx 30Be 30Bh 33E 33F 42B 42R 46D 49E 49Ea 56F 56F1 56F3 56Fa 56Fc 56Fy 56Fm 56Fg 60C 61L 62E 64A 64F 65A 65Am 65Am4 65Ai 65D 65Dl 65Dlc 65Ds 65F 65Fe 66P 71D 73A 73Ab 73Ad 73Ad2 73Ae 73C 73Ce 73Cd 80C

Its adult vernal-aestival, locally common, bivoltine. Nocturnal.

Psychidae

295. *Oiketicoides lutea* (Staudinger,1871) Figs. 23, 24

This genus is represented in Turkey by 5 species.² This nocturnal moth was recorded at Paşaköy 1600m, on 5 August 2016 at light trap, Prep. No: GP2470[♂] (**Fig.37**). Its identity causes some difficulties. Namely, Kozhantshikov (1956) described a number of species from Russia and its adjacent countries, with the laterally drawn male genital organs. In the present time, Szobczyk et al. (2013) described several new species from SW Europe. The male genital organs of the species were photographed from the ventral side. The first author of the present publication prepared and photographed the male genitalia from the ventral side. After comparing the published Kozhantshikov's and Szobczyk's figures of the species, we came to the conclusion that the specimen belongs to *O. lutea* Stgr. (=armena Heyl., sensu Kozhan.,1956).³ However, the male genitalia of *O. taurica*⁴ should be also compared.

Eye-index 0.85 (**Fig. 38**), wingspan: 23 mm, forewing: 11 mm, Forewing-index: 2.

Its adult aestival, locally common, univoltine. Nocturnal. New to the fauna of Van Province!

296. *Taleporia* sp.

This autumnal moth was recorded at two localities of the Mukus valley, on 23 October 2016 by day and by night. Investigations on its specific identity is still incomplete.

² <http://www.cesa-tr.org/Infos.htm>

³ *Oiketicoides lutea* Stgr. and *O. armena* Heyl. are conspecific, or not; this case is not here under discussion. The name *armena* Heylaerts was originally proposed as a variation of *lutea* Stgr. Kozhanchikov (1956) and Savela, M. (2016) considered it as synonym of *O. lutea* Stgr. Dierl (1970) and Szobczyk (2011) treated *armena* as bona species.

⁴ Wehrli (1932) described the syntypes of the species from "Marasch" today [Kahramanmaraş] and "DD" [Düldül Dağı] as "*Amicta taurica*" in Osthelder & Pfeiffer, Mitt. münch. ent. Ges. 22: 74. However, Szobczyk (2011: 211) mentioned the type-locality of this species as "Syria". Marasch and Düldül Dağı were located in South Turkey, not in Syria. After 1923, Pfeiffer and Osthelder visited Marasch in 1931- in the modern Republic of Turkey, but they published the results with the title "Lepidopteren-fauna von Marasch in türkisch Nordsyrien". Unfortunately this improper title misguides the readers geographically.

Material studied: 3♂, Bahçesaray, Mukus valley 1840m (65Am4), 23 10 2016, at light trap; 1♂, Bahçesaray, Mukus valley 1800m (65Am1), diurnal, M.Kemal & A.Koçak leg. (coll. Cesa) (**Fig. 25**) Prep. No: GP2437♂.

Sesiidae

297. *Chamaesphexia proximata* (Staudinger,1891) Fig. 26

Synonym(s): *proximata* Staudinger,1891; *moreaui* Le Cerf,1911; *gravesi* Rebel,1927 Original Reference: *Sesia proximata* Staudinger,1891, Dt. ent. Z., Iris 4: 244. Lectotype ♂: Türkiye, Hadjin [Saimbeyli], designated by Spatenka & Lastuvka (1988) (ZMHB). Range (in code): YU BG GR CY TR IL Pa IR Qz Th Mz Elb Lo Bk By Es Fa Ke Ss 01 05 42 60 65 73 01K 05A 65A 65Am 65Am1 65Am2

Its adult aestival, univoltine. Diurnal. New to the fauna of Van Province!

298. *Negotinthia hoplisiformis* (Mann,1864) Figs. 27, 28 Map 31

Synonym(s): *hoplisiformis* Mann,1864 Original Reference: *Paranthrene hoplisiformis* Mann,1864, Wien. ent. Monatschr. 8 (6): 176. Type: [Türkei: Bursa Prov.]: "Brussa". Range (in code): GR TR Cc AM Kho IR Kd Lo By Fa 01 05 16 30 42 46 47 65 73 01K 16A 30B 65A 65Ai 65At 65At3 65D 65Dg 65Dga 65F 65G 65Ge 65Bx

Its adult aestival, univoltine. Diurnal.

299. *Pyropteron* aff. *triannuliformis* (Freyer,1845)

Synonym(s): *meriaeformis* Assmann,1845 nec Bsd.,1840; *triannuliformis* Freyer,1845; *braconiformis* Herrich-Schäffer,1846; *philanthiformis* Lederer,1853 nec Lasp.,1801; *armeniaca* Bartel,1906; *balcanica* Zukowsky,1929; *ljiljanae* Tosevski,1986; *pungeleri* K.Spatenka,1987 Original Reference: *Sesia triannuliformis* Freyer,1845, Neuere Beitr. Naturk. 5: 35. Type(s): [Türkei]: "Constantinopel" [Istanbul]. Range (in code): FR si IT DE CH AT PL CZ SK HU RO MK AL BG GR TR Cc GG Smt Bjo Tbl AZ Nv EE LV LT RU MD UA BY IR Ab Sro Ak Th Es LB Bsa IL Pa 01 04 05 06 07 08 13 16 17 22 25 30 31 34 35 36 39 42 44 46 50 58 65 05A 16A 30B 30Bc2 30Bx 30D 30Du 65A 65At 65At5

Its adult aestival, univoltine. Diurnal. Apparently new to the fauna of Van Province! Prep. No: GP2372♂

Sphingidae

300. *Deilephila suellus* Staudinger,1878

Synonym(s): *suellus* Staudinger,1878; *kuruschi* O.Bang-Haas,1938. Original Reference: *Deilephila porcellus* var.? *suellus* Staudinger,1878, Horae Soc. ent. ross. 14: 298-300. Syntypes: [Türkei]: Amasia (Kerasdere). Range (in code): TR IR GG Bjo Tbl Lag Cc RU Da KK Ik CN Ui Au Ju IQ LB Bsa 01 04 05 06 07 12 13 19 25 30 32 42 49 50 58 60 61 65 66 70 71 01H 04I 05A 06R 06Ra 06Re 13F 13G 13Gs 13Gw 19C 30B 30Bg 30Bd 30Bx 30Bl 30D 30Da 36D 36F 42B 49E 49Ea 58R 60C 61K 61Ka 65A 65Am 65Am1 65Bx 65F 65Fc 65Fe 65Fp 65Fz 65G 65Ge 65N 65Np 65Np1 65Nm 66P 70C 70Cf 71D 71De

Its adult aestival, univoltine. Nocturnal.

301. *Hemaris (Cochrania) croatica* (Esper,[1779]) Fig. 29 Map 32

Synonym(s): *croatica* Esper,[1779]; *sesia* Hübner,[1806]; *#obscurata* Closs,1911; *#rangnowi* Closs,1911. Original Reference: *Sphinx croatica* Esper,[1779], Die Schmett. (II) (Suppl.) Abs.2 (8/9): 33, pl.45 fig.2. Type: Croatia, [Karlovac] "Carlstadt". Range (in code): IT HU YU HV AL RO BG GR TR IQ IR TM RU Ro Or Ao Sr KG Uk GG Tbl Cc AZ Nv Ord LB Bsa JO IL Pa 05 06 13 16 30 33 42 44 45 46 50 56 60 65 71 05A 06R 06Ra 13F 13G 13Gs 13Gw 16A 30B 30Ba 30Bg 30Bd 30Bx 30Be 30Bh 30Bl 33G 46G 50G 56F 56F1 60C 65A 65Ai 65As 65D 65F 65Fe 65Fy 65K 65Kl 65Kz 65Kg 65N 65Nr4 65Nm

Its adult aestival, univoltine. Diurnal.

302. *Hyles euphorbiae* (Linnaeus,1758) Fig. 30 Map 33

Synonym(s): *euphorbiae* Linnaeus,1758; *esulae* Hufnagel,1766; *vandalusica* Ribbe,1910; *etrusca* Verity,1911; *sinensis* Closs,1917; *rothschildi* Stauder,1928; *dolomiticola* Stauder,1930; *filipjevi* O.Bang-Haas,1936; *lucida* Derzhavets,1980. Original Reference: *Sphinx euphorbiae* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 492. Range (in code): Md Cn MA DZ TN PT ES FR Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd DK SE FI EE LV LT RU Ao Sr Sb Ur MD UA BY AZ Tlh IR Elb Th CN Ui Ku Muz TJ Pm TR Cc GG Smt Bjo Tbl JO IL Pa Hf LB Bsa Bei IQ SY Dms IR Elb Th 01 05 06 07 09 10 13 14 15 16 17 20 21 24 25 30 32 33 35 36 42 45 46 47 48 50 51 56 58 60 63 65 70 73 76 01H 05A 06R 06Ra 06Re 10C 10D 13A 13Ab 13Ae 13Ax 13F 16A 21L 21Lc 21N 21Nb 24G 25C 25Ca 30B 30Bd 30Bx 30D 30Da 30Df 36D 51D 47F 47Fa 48G 48Gb 56F 56Fh 56Fa 56Fs 58G 58Gg 60C 63B 65A

65An 65Am 65Am1 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65F 65Fb 65Fe 65Fş 65Fz 65N 65Nc 65Nc4 65Np 65Np1 65Np2 65Nm 70C 70Cf 73C 73Cd 73D 73Da 76A 76Ac 76B 76Bb

Its adult vernal-aestival, univoltine. Nocturnal.

303. *Hyles nicaea* (Prunner,1798)

Synonym(s): *nicaea* Prunner,1798; *cyparissiae* Hübner,[1813]; #*nicaea* De Freina,1981 Original Reference: *Sphinx nicaea* Prunner,1798, Lepid. Pedemontana: 86. Type: "Nice en Provence". Range (in code): DZ Sbd MA Khh Afl PT ES FR Co Sa IT YU AL BG GR TR Cc AM Eri LB Bsa UA Cm IN KG Ssn IQ 06 13 19 25 30 36 50 58 60 65 66 76 13A 13Ab 13Ax 13G 13Gü 13Gw 19C 30B 30Ba 30Bd 30Bx 30D 30Da 36D 36F 50G 58Ia 60C 65A 65Am 65Am3 65Ac 65Ac3 65Bx 65D 65Dl 65Dlc 65F 65F1 65Fp 65Fz 65G 65Ge 65K 65Kd 65Kg 66P

Its adult aestival, univoltine. Nocturnal.

304. *Laothoe populeti* (Bienert,[1870]) **Fig. 31**

Synonym(s): *populeti* Bienert,[1870]; *populetorum* Staudinger,1887; *syriaca* Gehlen,1932; *intermedia* Gehlen,1934. Original Reference: *Smerinthus populeti* Bienert,[1870], Lepid. Ergebn. Reise Persien: 33. Type: Iran: "Meschhet". Range (in code): TR Cc AZ Nv Ord Kir GG Bjo Lag AM LB SY IQ IR Ab Oru Qba Mz Gls Kh TM UZ TJ KK KG Uk Ssn T-S CN Ui Ku Ts Kno 02 05 06 12 13 25 30 32 36 42 44 46 48 53 56 60 65 71 75 02E 02Ec 05A 06R 06Ra 12E 13A 13Ab 13Ax 13F 13G 13Gü 13Gw 30B 30Bd 30Bx 30C 30Cd 30D 30Da 36D 36Db 36F 44E 44Eh 46G 48L 56F 56F6 56F3 56F1 60C 65A 65Ai 65An 65Am 65Am1 65D 65N 65Np 65Nm 75F 75Fb

Its adult aestival, univoltine. Nocturnal.

305. *Macroglossum stellatarum* (Linnaeus,1758)

(Sphingidae) Synonym(s): *stellatarum* Linnaeus,1758; *nigra* Cosmovici,1892. Original Reference: *Sphinx stellatarum* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 493. Range (in code): Cn MA DZ TN LY EG PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU MK AL BG GR Cr TR IQ SY LB Bsa IL JO DK NO SE FI EE LV LT RU Sr Ur Mo Ao Sb To Am Vv MD UA Cm IR Elb Kh Ke KK KG Uk Ssn Sp TM Krn Kp TJ Pm UZ AF Ca PK Bl Qu CN Ui Kun BY KP KR TW JP Az Md CY Pa Hf K-A Lps Shh Ur Ask Pkn Cm Vl Pt Tt Or Bgd Rd JO Kab Khi Pjr Hsr Cc Mre Ab Qba Oru Ak Shf Rbt Saia Orn Agi Blid Omy Bsk Ktr Mzg Hrh Ahr Sfr Tni Tis 01 05 06 09 10 11 13 14 16 17 21 25 30 31 33 35 36 38 45 46 48 55 56 58 60 63 65 70 71 75 76 01H 05A 06R 06Rd 10D 10K 10Ka 13A 13Ab 13Ac 13Ax 13F 13Gw 13Gü 16A 30B 30Bc2 30Bx 31K 31Ka 33A 33Aa 36D 36Db 38G 38Ga 46F 46Fd 48A 48G 48Gb 48F 48L 55F 56F 56Fg 56Fm 56Fa 58N 63D 65A 65Ai 65B 65Bn 65Bn1 65D 65Dn 65Du 65E 65Eb 65Ec 65F 65Fb 65Fc 65Fd 65Fş 65Fz 65G 65Gs 65K 65Ks 65Kz 65Kg 65Ky 65Ky1 65M 65Mc 65Md 65N 65Np 65Nm 70C 70Cb 75F 76B 76Bi

Its adult is seen all the year long. It hibernates in the winter. Diurnal, rarely nocturnal.

306. *Marumba quercus* ([Denis & Schiffermüller],1775)

Synonym(s): *quercus* [Denis & Schiffermüller],1775; *denisii* Fuessly,1779; #*brunnescens* Rebel,1910; #*canescens*, *pallescens* Closs,1922; *mesopotamica* O.Bang-Haas,1938; *schirasi* O.Bang-Haas,1938; #*pallida* Vilarrubia,1973. Original Reference: *Sphinx quercus* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 41, Tab 1 fig.1. Type(s): Vienna district. Range (in code): MA PT ES FR Co Sa Si IT CH AT CZ SK HU RO YU AL BG GR TR AM AZ GG Cc Smt Bjo RU MD UA IR Fa Shr IQ Rwz LB JO 01 05 06 07 10 12 13 19 21 30 31 33 42 46 47 48 49 56 62 65 73 05A 06R 06Rb 10D 13F 19B 21N 21Nb 21Nh 30B 30Ba 30Bh 30C 30Cd 31K 33A 33Ac 42B 47F 47Fa 48G 48Gb 49E 49Ea 56F 56Fa 56Fb 56F3 56Fc 56Fy 56Fx 56Fv 56Fg 56F1 56Fc 56Fs 56Fm 62E 65A 65Ai 65D 65Dl 65Dlc 65Du 73A 73Ae 73C 73Cd 73D 73Df 73Dfc

Its adult aestival, common in Quercus woodlands, univoltine. Nocturnal.

307. *Rethera komarovi* (Christoph,1885) **Fig. 32**

Synonym(s): *komarovi* Christoph,1885; #*kamarowi* Wagner,1931; *rjabovi* O.Bang-Haas,1934; #*albocingulata* O.Bang-Haas,1934; #*roseocingulata* O.Bang-Haas,1937 Original Reference: *Deilephila komarovi* Christoph,1885, [in] Romanoff, Mem. Lepid. 2: 169. Type: Askhabad. Range (in code): MK AL BG GR TR Cc GG Bjo AM AZ Nv Ord RU AF KG IQ IR Kh Fa PK Bl Chm JO 05 06 13 23 30 36 42 44 46 56 60 65 66 70 71 05A 06R 06B 06Bb 06Ra 13F 23I 30B 30Bc1 30Bg 30Bl 30Bd 30Bx 30Ba 36D 36F 42B 44L 44Lc 47F 47Fa 56F 56Fa 56Fb 56F6 56Fm 56Fq 56Fx 56Fb 56F1 60C 65A 65Am 65Am1 65Am3 65Am4 65Ai 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Di 66P 70C 70Cf Prep. no.: GP709[♂]

Its adult aestival, common in the mountain steppes, univoltine. Nocturnal.

308. *Smerinthus kindermanni* Lederer,1852

Synonym(s): *kindermanni* Lederer,1852; #*obscura* Closs,1917 Original Reference: *Smerinthus kindermanni* Lederer,1852, Verh. zool.- bot. Ver. Wien 2: 92-93. Lectotype ♂: [Türkei: Diyarbakır Prov.]: "Argana, Maden" (MNH). Range (in code): TR Arr IR Es Elb Th Mz Fa AF Ca Nu Bsg Srb Slg Kab Sfk PK Nwf Ci Gg Psu JO SY LB Bsa CY TM Kp IQ Agh AM Cc GG AZ Kir Len UZ Fe Man CN Ui Ga Kl Um Tpn Shz Mgn IN Hp KG Aa T-S TrA 06 21 22 23 25 30 42 46 56 58 60 63 65 76 06R 06Ra 21N 21Nb 25T 25F 30B 30Bl 30Bh 30Bd 30Bx 30D 30Da 56F 56Fb 56Fé 56F1 56Fy 58N 58R 60C 63M 65A 65Am 65Am3 65Ai 65F 65Fç 65Fe 65Fz 65Fm 76A 76Aa

Its adult vernal, common in Salix-Populus communities, univoltine. Nocturnal.

309. *Sphingonaepiopsis gorgoniades* (Hübner,[1819]) Fig. 33 Map 34

Synonym(s): *gorgon* Esper,[1804] nec Cr.,1777; *gorgoniades* Hübner,[1819]; *chloroptera* von Mentzer,1974.
Original Reference: *Proserpinus gorgoniades* Hübner,[1819], Verz. bekannt. Schmett.: 132 (proposed as nomen novum for *Sphinx gorgon* Esper,[1804] nec Cramer,1777). Type(s): [Russia]: lower Wolga (probably lost). Range (in code): HV RO AL GR BG UA Cm RU Ur Or MK Skj AM GG Cc TR LB Bsa IR Ab Ak Elb Th Kh Lo IQ Hjo AF Kab JO IL Pa KK KG TJ UZ Fe Man 05 13 16 33 36 46 50 56 60 65 13F 13G 13Gs 13Gw 16A 36D 36Db 46L 56F 56Fg 60C 65A 65Am 65Am1 65D 65Dg 65Fz 65N 65Np 65Np1 65Np2 65Nm

Its adult aestival, locally common in the mountain steppes, univoltine. Nocturnal.

Thyatiridae**310. *Polyplocia korbi* Rebel,1901**

Synonym(s): *korbi* Rebel,1901 Original Reference: *Polyplocia korbi* Rebel,1901, Annln naturh. Mus. Wien 16: 167. Type ♂: Türkei, Akşehir (ZMHU) [see: Int. ent. Z. 24 (45): Tafel, fig.2]. Range (in code): TR IQ IL Pa SY IR 06 07 16 21 31 33 42 46 48 50 56 64 65 73 06R 06Rb 07A 21N 21Nh 31B 42B 48G 48Gb 56F 56F3 56Fg 64F 65A 65Ai 73C 73A 73Ab 73Cd

Its adult aestival, locally common in *Quercus* woodlands, univoltine. Nocturnal. New to the fauna of Van Province!

Zygaenidae**311. *Adscita (s.str.) obscura* (Zeller,1847) Figs. 39, 40**

Synonym(s): *obscura* Zeller,1847; *anceps* Staudinger,1862. Original Reference: *Procris obscura* Zeller,1847, Isis 1847: 15. Lectotype ♂: [Greece]: Rhodos, designated by Tarmann & Tremewan,1995 (BMNH). Range (in code): MK BG GR Rd CY TR RU Da Cc GG SY LB Bsa Pa IL Hf EG IQ IR Fa Sse GlS Kh 05 06 12 16 21 31 33 35 36 38 42 44 46 50 51 56 63 65 71 80 05A 06R 06Rd 16A 21L 21Ld 44L 56F 56F1 63B 65A 65Am 65Am4 65F 65Fb 65N 65Nr7 65Nm Prep. no: GP540♂ GP544♂ GP545♂ GP550♂ GP2355♂

Its adult aestival, locally common in the mountain steppes, univoltine. Diurnal.

312. *Jordanita (Lucasiterna) subsolana* (Staudinger,1862) Fig. 41 Map 35

Synonym(s): *cognata* Rambur,1858 nec H.-Sch.,1847; *subsolana* Staudinger,1862; *schuetzei* Alberti,1940; *modesta* Verity,1946; *venusta* Verity,1946 Original Reference: *Ino cognata* var.? *subsolana* Staudinger,1862, Stettin ent. Ztg. 23: 352. Lectotype ♂, Ofen (Hungary), designated by Efetov & Tarmann (1999) (ZMHB). Range (in code): ES FR Si IT BE DE CH AT CZ SK HU RO YU AL BG GR Rd TR Cc SY IQ Ama RU MD UA Cm At Sb UZ Smk Man Nmg KK Gul 06 10 29 32 33 35 38 60 63 65 75 06R 06Rb 10K 10Ka 33G 65A 65Am 65Am1 Prep. no: GP542♂ GP2356♂

Its adult aestival, uncommon in the mountain steppes, univoltine. Diurnal. New to the fauna of Van Province!

313. *Jordanita (Roccia) volgensis* (Möschler,1862) Fig. 42, 43 Map 36

Synonym(s): *volgensis* Möschler,1862 Original Reference: *Ino volgensis* Möschler,1862, Wiener ent. Monatschr. 6: 139-140, Taf.1 fig.11. Syntypes: Russia, Sarepta. Range (in code): RU Da Tt Or Om Sr No VI UA KG Uk TR SY Dms AM AZ Kir Nv Ord Bak Cc GG Smt Akh 01 06 13 36 44 49 51 58 63 65 70 06K 06Kb 06R 06Rd 49F 49Fb 58G 58Gd 65A 65Au 65D 65Dg 65F 65Fe Prep. no: GP546♂, GP2258♂, GP2259♂, GP2354♂

Like the preceding species.

314. *Zygaena (Agrumenia) carniolica* (Scopoli,1763)

Synonym(s): *carniolica* Scopoli,1763; *nigra* Dziurzynski,1909; *transiensnigra* Dziurzynski,1909 Original Reference: *Sphinx carniolica* Scopoli,1763, Entomologia Carniolica: 189. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): ES FR Si IT BE LU DE Brd CH AT Stm PL CZ SK HU RO Do B-H Sjn HV Zad SS YU MK Skj AL BG Vrn Ppp Slv GR Cr Ve Prn TR IR Elb Mz Dam KG Tk Ii CN Ui UZ LB Ksr Bsa SY Nv Ord AZ AM Alg GG Smt Im Kta Akh Cc LV RU Ur Nt Sr Da Aty Nov Kr Kis Tua MD UA Cm BY 01 04 05 06 07 08 13 14 16 18 22 23 24 25 29 30 31 33 34 35 36 37 38 39 41 42 43 46 58 60 65 66 71 75 76 77 78 01K 05A 06C 06Cb 16A 18F 25E 31M 33G 37E 37Eb 46L 58F 58N 60H 60Hb 65A 65Aç 65D 65Dda 65F1 65Fz 65H 65K 65Kc 65Kr 65N 65Np1 65Nm 75F 76C 78D 78Da

Its adult aestival, very rare in the district, univoltine. Diurnal.

315. *Zygaena (Agrumenia) olivieri* Boisduval, 1828

Synonym(s): *olivieri* Boisduval, 1828; *cremonae* Seitz, 1907 Original Reference: *Zygaena olivieri* Boisduval, 1828, Essai Monogr. Zygénides: 98 pl. 6 fig. 4. Type: [Liban]: Beirut. Range (in code): TR Cc GG Akh Smt IR LB Zah Bsa Bei SY AM Alg Eri Zng AZ Nv Ord Kir 01 04 05 06 07 08 11 13 19 23 25 29 30 33 36 38 42 44 46 49 50 58 60 62 65 66 70 73 76 01K 05A 06K 06Kb 07B 07C 08H 08Hc 13G 13Gb 13Ge 13Ge 33H 42B 42Bb 44L 46G 46L 58N 62E 65A 65Am 65Am1 65D 65Dl 65Dlc 65Do 65Doa 65F 65Fe 70B 70Bb 70C 70Ce 76C 76D 76Dd

Its adult aestival, very rare in the district, univoltine. Diurnal.

316. *Zygaena (Mesembrynus) purpuralis* (Brünnich, 1763)

Synonym(s): *purpuralis* Brünnich, 1763; *pythia* Fabricius, 1777; *scabiosae* Scheven, 1777; *pilosellae* Esper, 1780; *pluto* Ochsenheimer, 1808; *pasiphae* Meigen, [1829]; *tatvanica* Reiss & Reiss, 1973. Range (in code): ES FR Si IT IE GB BE LU DE CH AT PL CZ SK HU RO B-H HV MK Och Doj YU AL BG Slv GR TR AM Alg GG Smt Akh Tbl Cc DK LT RU Kc Teb Kis Pja Da Der At MD UA Cm BY KK KG Lps Ket CN Ui Ku T-S Na 04 05 06 08 13 14 16 23 25 29 30 31 34 36 38 42 44 46 58 61 62 65 69 71 72 75 76 06R 06Rb 06Rd 16A 29F 46F 46Fe 58N 61K 61Kb 65A 65Au 65F 65Fg 72E 72Eh 72Ei 75F 75Fg 75Fg 76B 76C

Its adult aestival, very rare in the district, univoltine. Diurnal.

317. *Zygaena (s.str.) filipendulae* (Linnaeus, 1758)

Synonym(s): *filipendulae* Linnaeus, 1758; *aries* Retzius, 1783; *ramburi* Herrich-Schäffer, 1861; *mersina* Herrich-Schäffer, 1861; *gurda* Lederer, 1861; *rosa* Oberthür, 1909 Original Reference: *Sphinx filipendulae* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 494. Range (in code): ES Mu FR Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR Cc GG Bjo GG Abk Sok AZ AM DK NO SE FI EE LV LT RU Kc Teb Nt MD UA Kiw BY IR Ak Ab LB Bei Bsa Aiz 01 05 06 08 10 11 12 13 14 16 18 22 24 25 28 29 30 31 34 36 37 42 43 44 49 50 53 58 60 61 62 65 66 69 70 75 76 78 05A 06R 06Rb 06Rd 10K 10Ka 12A 13G 14I 14Ib 25A 31K 31Ka 31M 36F 50G 61K 65A 65Ai 65Au 65F 65Fe 65Fp 65Fz 65N 65Nr6 65Nm 76C 76D 76Da 78D 78Da Prep. no: GP2072[♂]

Its adult aestival, uncommon in the district, univoltine. Diurnal.

References

- Koçak, A.Ö. & M. Kemal, 2012, List of two thousand species of pterygot insects in Van Province (East Turkey) (Results of the entomofauna project of Turkey – 7). *Cesa News* 81: 2-86, 37 figs.
- Kemal, M. & A.Ö. Koçak, 2014, Illustrated and annotated list on the Entomofauna of Gören Mount (Van Province, East Turkey), with ecological remarks I – Period of April-June 2014. *Priamus* (Suppl.) 33: 5-206, 273 figs. 1 Table.
- Kemal, M. & A.Ö. Koçak, 2016a, On the Entomofauna of the eastern slopes of Alacabuk mountain (Gavas district, Van Province, East Turkey). *Cesa News* 124: 1-31, 74 figs.
- Kemal, M. & A.Ö. Koçak, 2016b, Annotated list of the Pterygota fauna of Artos Mountain (Van Province, East Turkey). *Cesa News* 125: 1-36, 30 figs.
- Kemal, M. & A.Ö. Koçak, 2016c, Annotated and pictorial list of the Catak Lepidoptera. *Priamus* (Suppl.) 41: 1-118, 95 figs.
- Kemal, M. & A.Ö. Koçak, 2016d, First contribution to the knowledge of the Pterygota fauna of Bahcesaray (Van Province, East Turkey). *Cent. ent. Stud., Misc. Pap.* 161: 1-16, 21 figs.
- Kemal, M. & A.Ö. Koçak, 2016e, On the Noctuidae fauna of Bahcesaray district (Van Province, East Turkey). *Priamus* 14 (1): 1-74, 30 figs., 56 maps.⁵
- Kemal, M. & A.Ö. Koçak, 2016f, On the Geometridae fauna of Bahcesaray district, together with some morphological and eco-faunistic notes (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (2): 76-119, 69 figs. 32 maps.
- Kemal, M., Koçak, A.Ö. & N. Ecer, 2016, Second contribution to the knowledge of the Pterygota fauna of Bahcesaray (Van Province, East Turkey). *Cesa News* 126: 1-11, 1 fig.
- Kemal, M., Hakan, E., Koçak, A.Ö. & H. Tekin, 2016, *Polysarcus elbursianus* in Van Province (East Turkey) (Orthoptera, Tettigoniidae). *Cesa News* 127: 1-10, 25 figs., 1 tab.
- Kozhantshikov, I. V., 1956, *Lepidoptera Psychidae* (Chekhlonosy-meshechnitsy), [in] Stackelberg, A. A. [ed.] *Faune of the USSR* vol. iii, no. 2, Zool. Inst. Acad. Sci. USSR, Moskva-Leningrad, [Israel Program for Scientific Translations, Jerusalem, 1969].
- Sobczyk, T., Arnscheid, W. R. & M. Nuss, 2014, Taxonomische Revision von *Oiketicoides* Heylaerts, 1881 von der Iberischen Halbinsel (Lepidoptera: Psychidae, Oiketicinae). *Ent. Z., Stuttg.* 124 (4): 215-226, figs.

⁵ Freely downloadable from ResearchGate:

https://www.researchgate.net/publication/309801570_On_the_Noctuidae_fauna_of_Bahcesaray_district_Van_Province_East_Turkey_Lepidoptera

Figures taken in the nature



Figs. 2, 3 – *Andala semiramis* (Arctiidae), at rest, both from Mukus valley 24 6 2016, M.Kemal (Cesa)



Figs. 4, 5 – *Arctia marchandi* (Arctiidae) (left), at rest from Paşaköy 1600m 3 6 2016; *Arctia festiva* (right) from Mukus valley 1840m 24 6 2016, M.Kemal (Cesa)



Figs. 6, 7 – *Chelis reticulata* (Arctiidae) (left), at rest from Altındere 5 6 2016; *Euplagia quadripunctaria* (right) from Paşaköy 1600m 5 8 2016 at light trap, M.Kemal (Cesa)



Figs. 8, 9 – *Euplagia splendidior* (Arctiidae) (left), at rest from Paşaköy 1600m 5 8 2016, at light trap, sympatric with *quadripunctaria*; caterpillar of *Euplagia quadripunctaria* on *Anchusa* sp. (Boraginaceae) (right), from same place on 2 6 2016, M.Kemal (Cesa)



Figs. 10, 11 – *Phragmatobia placida* (Arctiidae) (left), at rest from Paşaköy 1600m on 26 5 2016; *Axia theresiae* (Cimeliidae) (right), from same place and date, on 26 5 2016, M.Kemal (Cesa)



Figs. 12, 13 – *Dyspessa ulula* (Cossidae) (left), at rest from Mukus valley on 24 6 2016; *Cilix asiatica* (Drepanidae) (right), from Vasting, on 26 5 2016, M.Kemal (Cesa)



Figs. 14, 15 – *Watsonalla binaria* (Drepanidae) (left), at rest from Vasting on 5 6 2016; *Lasiocampa eversmanni* (Lasiocampidae) (right), from Mukus valley 1840m, on 3 10 2016, M.Kemal (Cesa)



Figs. 16, 17 – *Pachypasa otus* (Lasiocampidae) (left), at rest from Paşaköy on 5 8 2016; *Phyllodesma tremulifolium* (Lasiocampidae) (right), from Paşaköy, on 3 6 2016, M.Kemal (Cesa)



Figs. 18, 19 – *Lemonia pia* (Lemoniidae) (left), at rest from Mukus valley on 3 10 2016; *Cerura vinula* (Notodontidae) (right), from Mukus valley, on 11 5 2016, M.Kemal (Cesa)



Figs. 20, 21 – *Furcula interrupta* (Notodontidae) (left), at rest from Paşaköy 1600m 3 6 2016; *Pterostoma palpinum* (Notodontidae) at rest, from Vasting, on 5 6 2016, M.Kemal (Cesa)



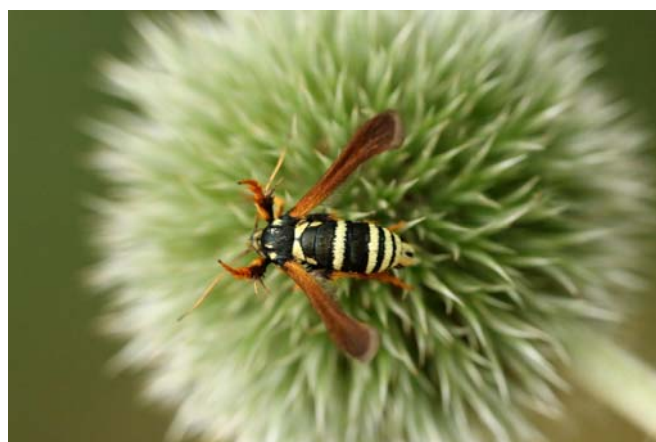
Figs. 22, 23 – *Spatalia argentina* (Notodontidae) (left), at rest from Paşaköy 1600m, on 6 6 2016; *Oiketicoides lutea* (Psychidae), (right) at rest from same place, on 5 8 2016, M.Kemal (Cesa)



Figs. 24, 25 – *Oiketicoides lutea* (Psychidae) (left) at rest from Paşaköy 1600m on 5 8 2016; *Taleporia* sp. (Psychidae) (right) from Mukus valley (65Am1) by day at rest, 23 10 2016, M.Kemal (Cesa)



Figs. 26, 27 – *Chamaesphecia proximata* (Sesiidae) (left), in copula from Altındere on 4 7 2016; *Negotinthia hoplisiformis* (Sesiidae) (right), at rest with remarkable position of mid-legs, from Altındere on 26 6 2016, M.Kemal (Cesa)



Figs. 28, 29 – *Negotinthia hoplisiformis* (Sesiidae) (left), at rest on *Echinops* flower (Asteraceae) from Paşaköy, on 5 7 2016; *Hemaris croatica* (Sphingidae) (right) during feeding from *Carduus* (?) flower (Asteraceae) from Garipli 2040m, on 25 6 2016, M Kemal (Cesa)



Figs. 30, 31 – *Hyles euphorbiae* (Sphingidae) (left), at rest from Mukus valley on 13 6 2016; *Laothoe populeti* (Sphingidae) (right), at rest, from Vasting on 5 6 2016, M Kemal (Cesa)



Figs. 32, 33 – *Rethera komarovi* (*Sphingidae*) (left), at rest from Mukus valley on 25 6 2016; *Sphingonaepiopsis gorgoniades* (*Sphingidae*) (right), at rest, from same place, on 13 6 2016, M Kemal (Cesa)

Male Genitalia



Fig. 34 – *Manulea complana* (*Arctiidae*), GP2370, Bahçesaray, Mukus valley, M. Kemal (Cesa). Male genitalia.



Fig. 35 – *Manulea palliatella* (Arctiidae), GP2371, Bahçesaray, Mukus valley, M. Kemal (Cesa). Male genitalia.



Fig. 36 – *Dysauxes famula* (Ctenuchidae), GP2473, Bahçesaray, Mukus valley, M. Kemal (Cesa). Male genitalia.



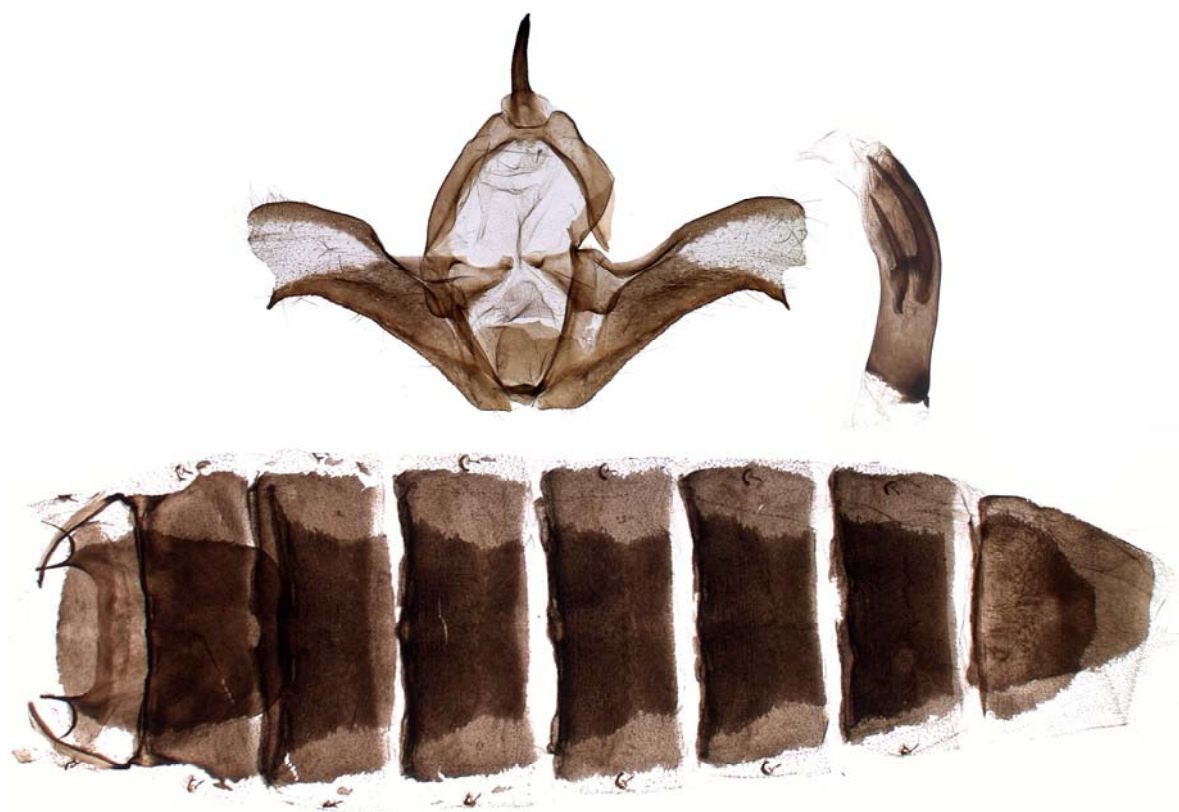
Figs. 37, 38 – *Oiketicoides lutea* (Psychidae), GP2470, Bahçesaray, Paşaköy, M. Kemal (Cesa). Male genitalia and nocturnal eyes of the male (See page 128 for eye-index).



Figs. 39, 40 – *Adscita obscura* (Zygaenidae), GP2355, male genitalia (above), and abdominal skin (below). Bahçesaray, Mukus valley, M Kemal (Cesa)



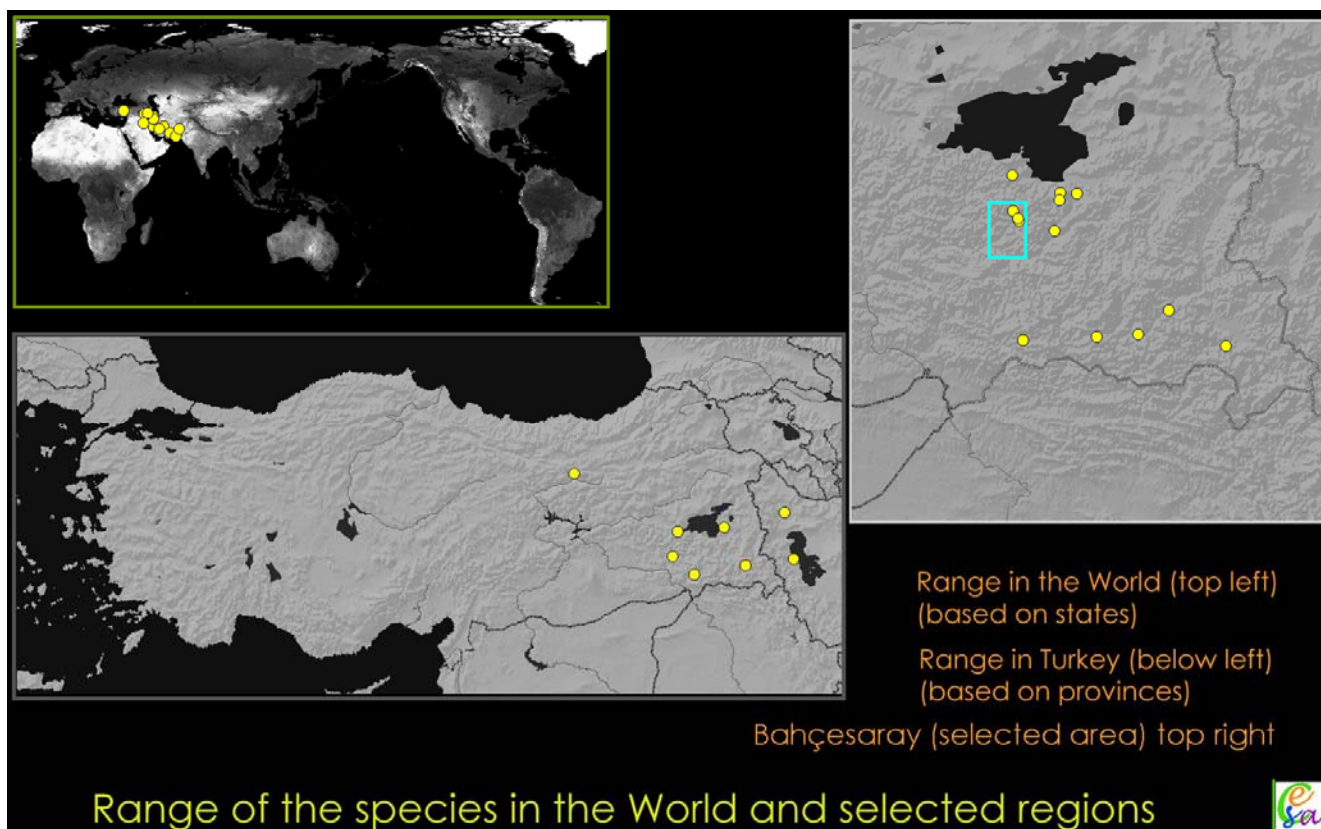
Fig. 41 - *Jordanita (Lucasiterna) subsolana* (Zygaenidae), GP2356, male genitalia, Bahçesaray, Mukus valley, M Kemal (Cesa)



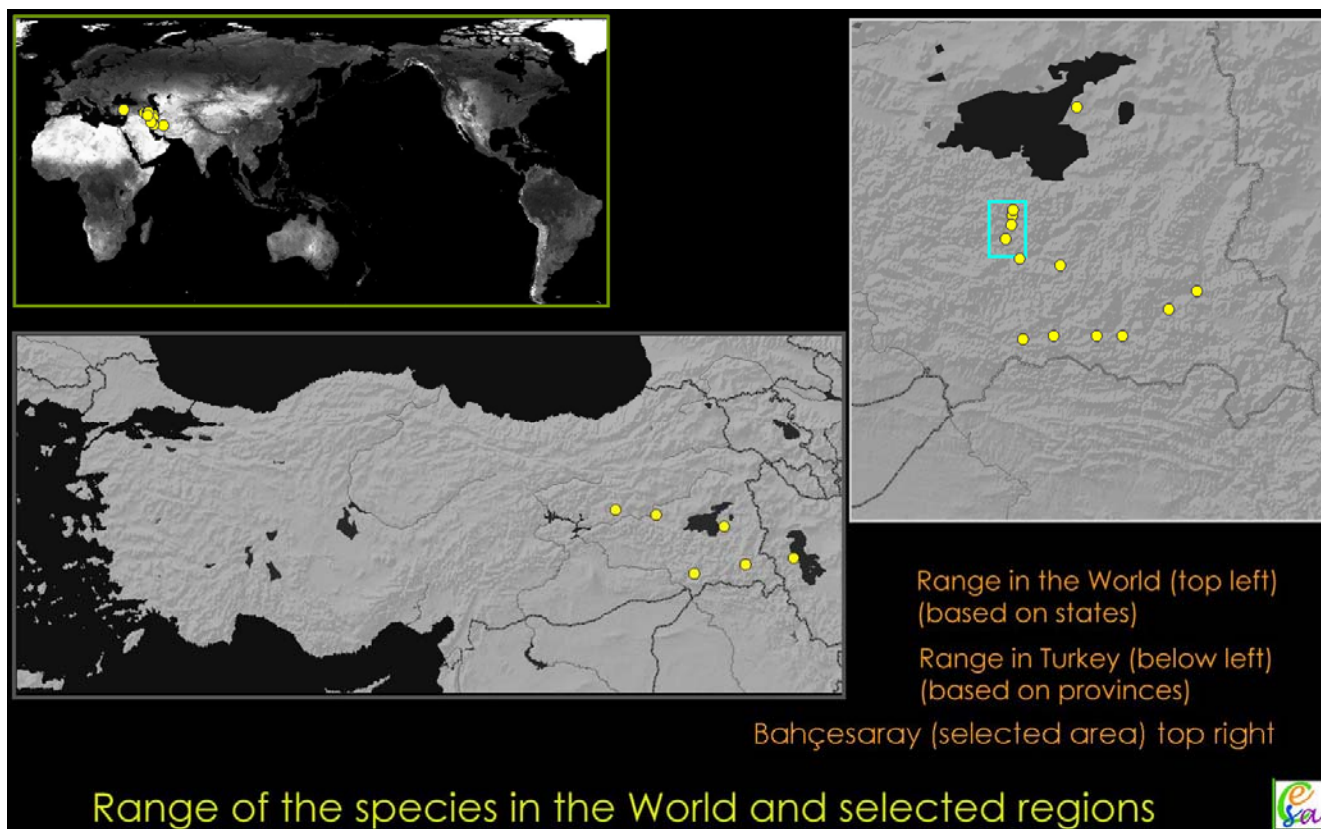
Figs. 42, 43 - *Jordanita (Roccia) volgensis* (Zygaenidae), GP2354, Bahçesaray (65Au), male genitalia (above), abdominal skin (below), M Kemal (Cesa)

Maps

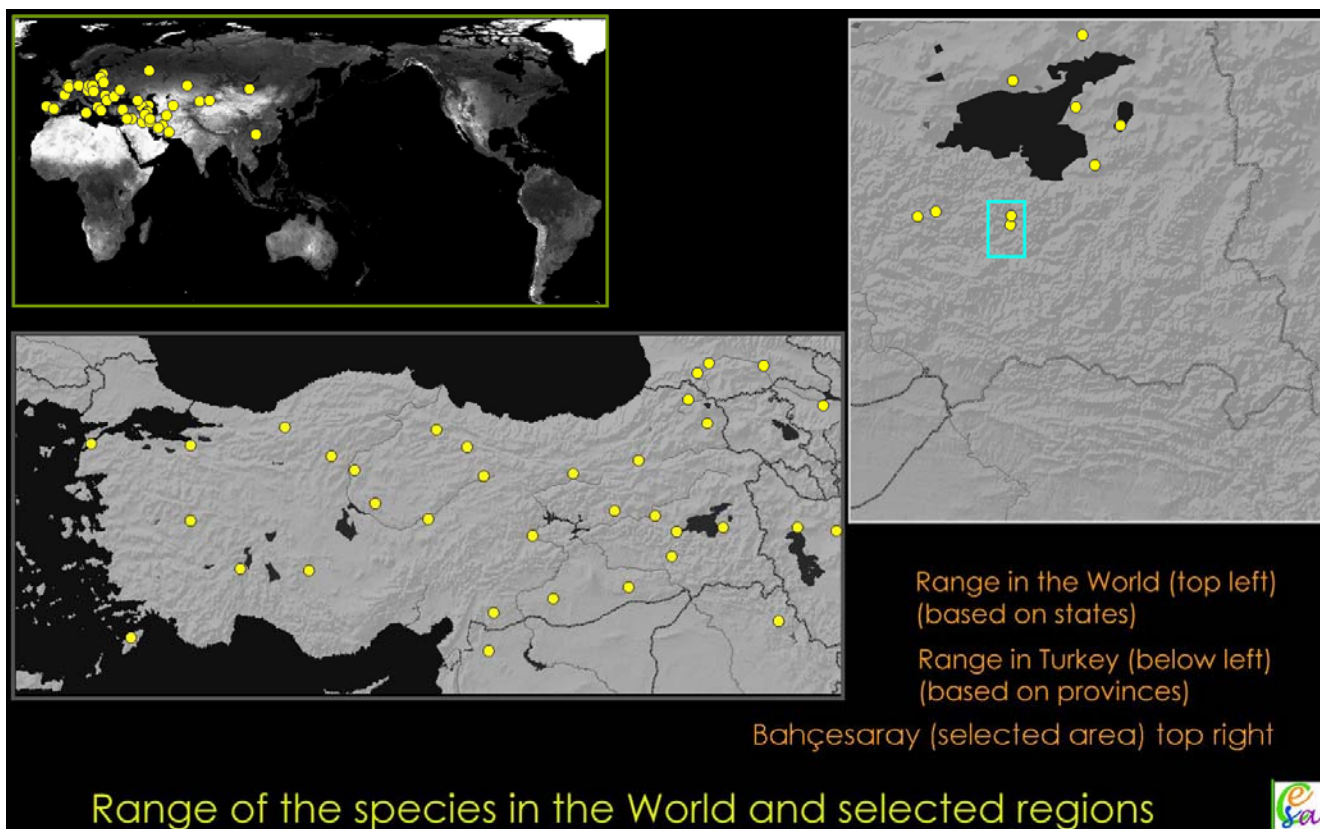
The species are also indicated with their sequence numbers in the text.



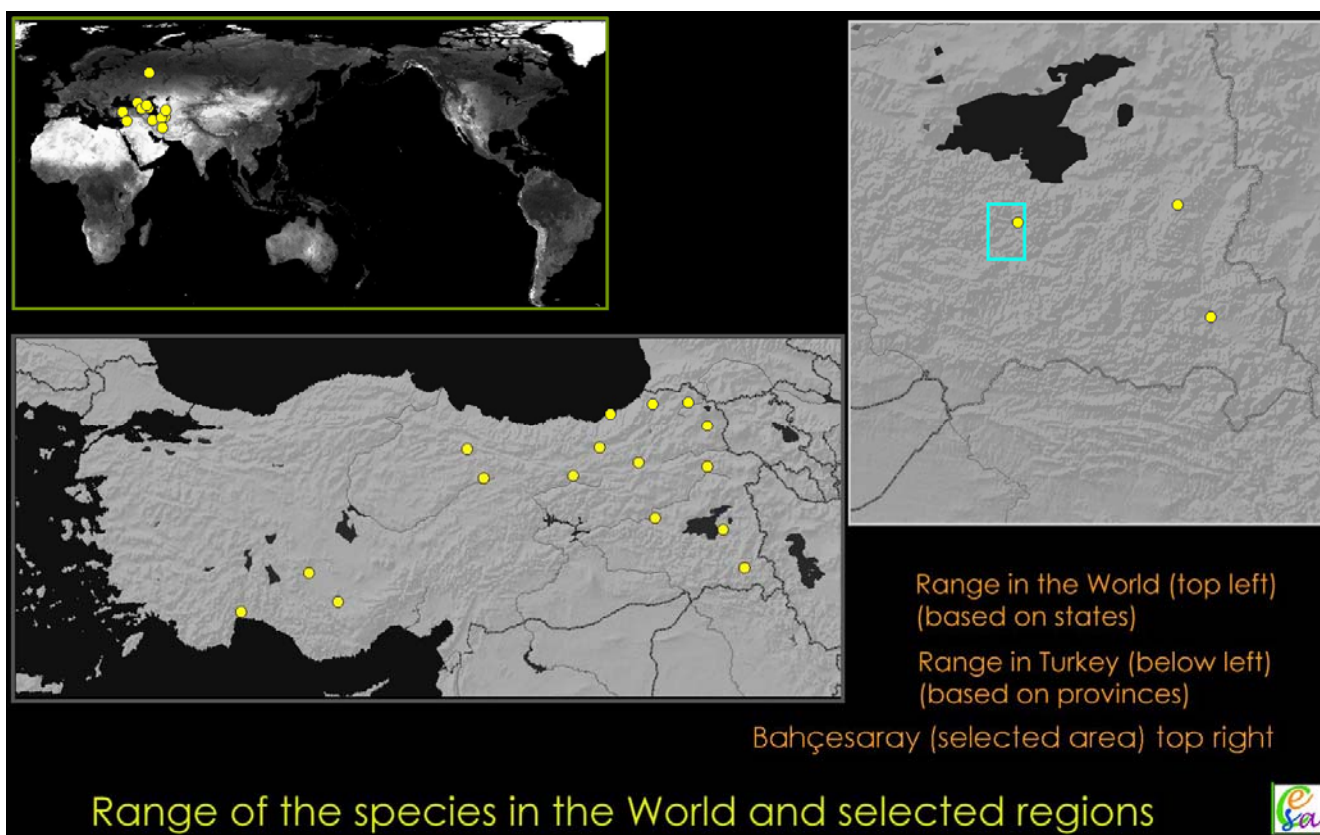
Map 1 (263) - *Andala semiramis*



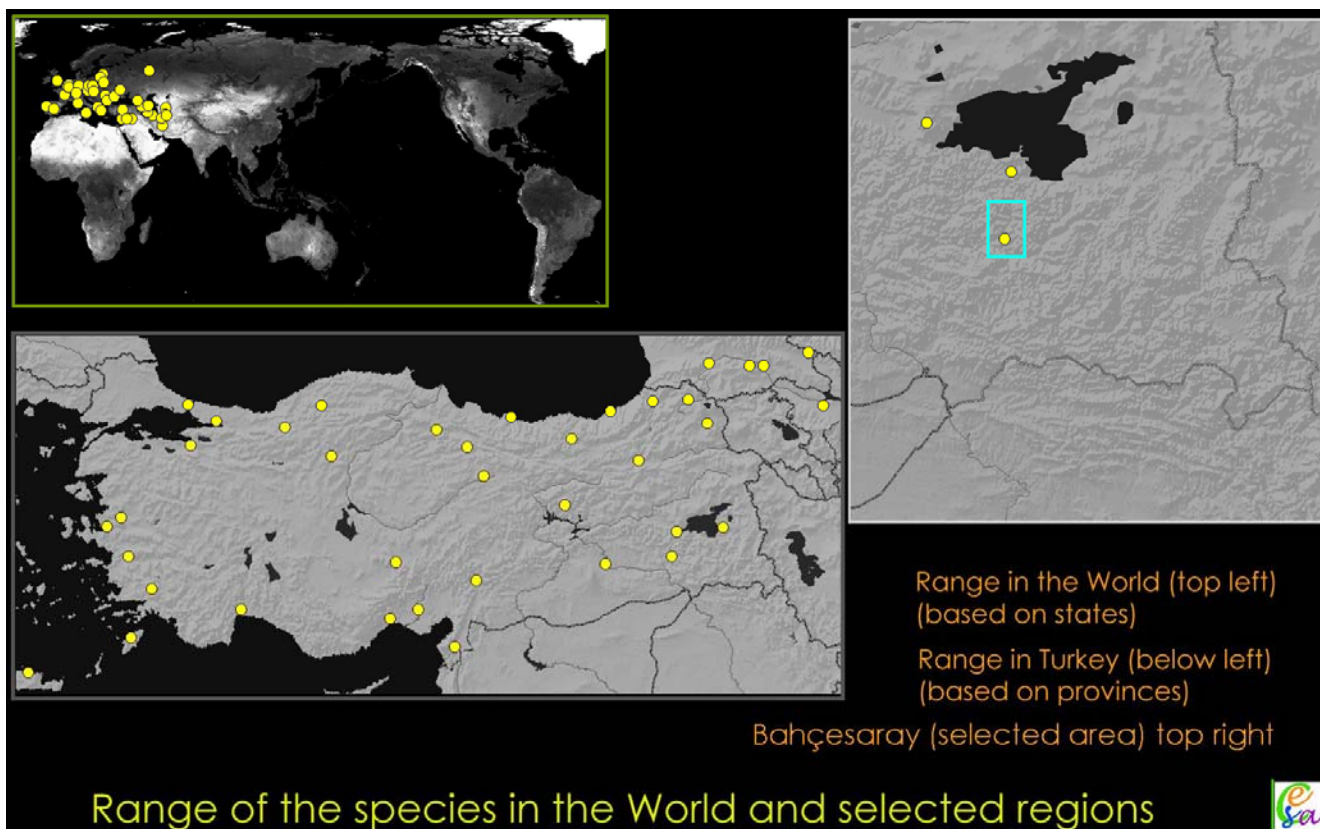
Map 2 (264) - *Arctia (Epicallia) marchandi*



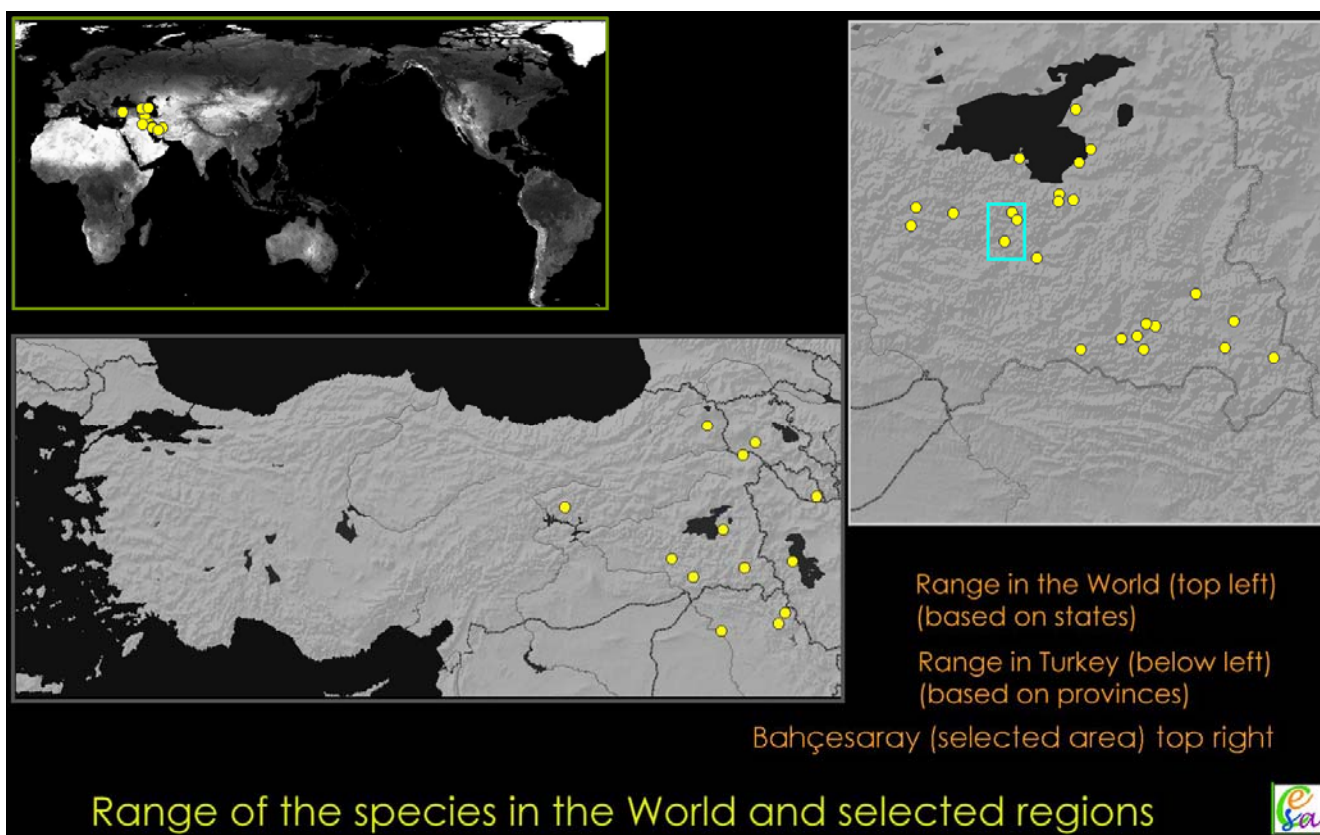
Map 3 (265) - *Arctia (Eucharis) festiva*



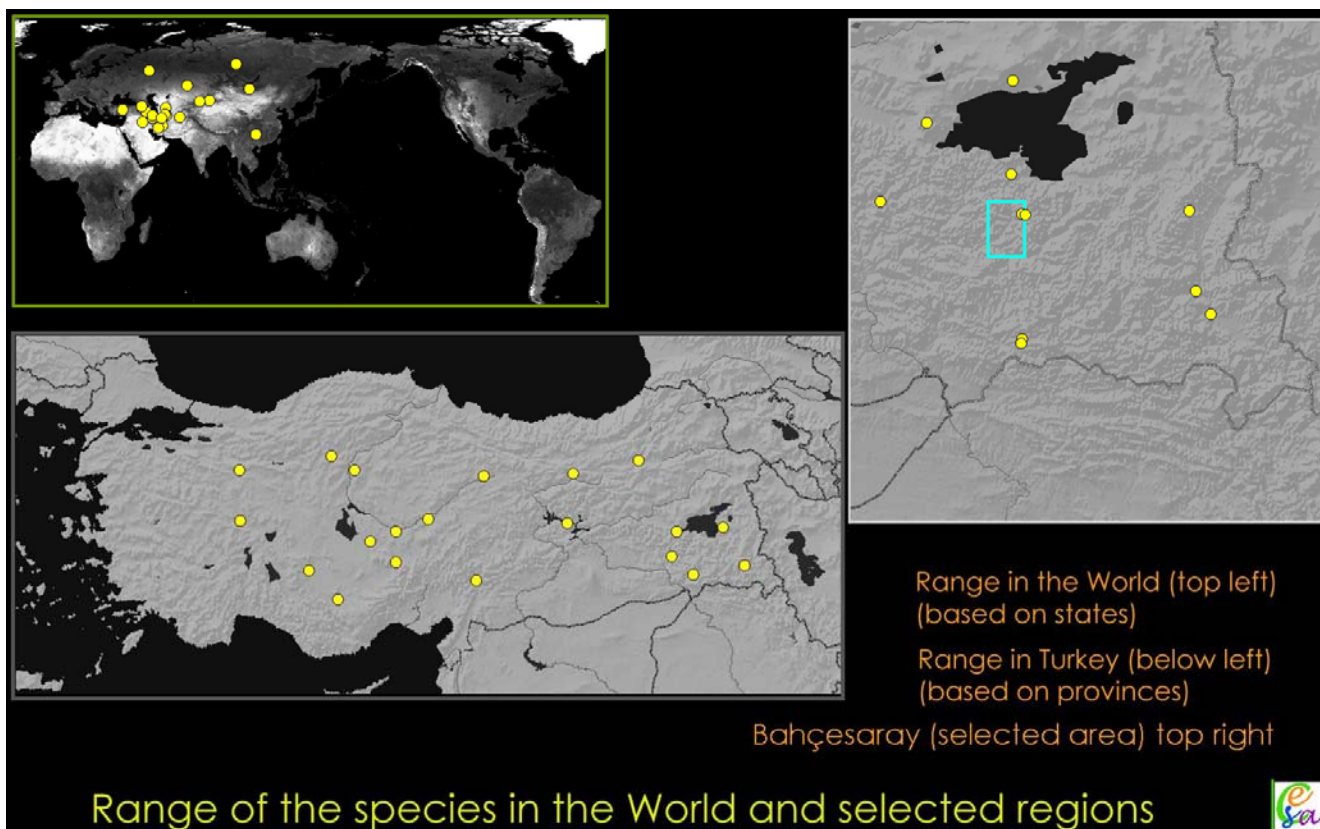
Map 4 (266) - *Chelis reticulata*



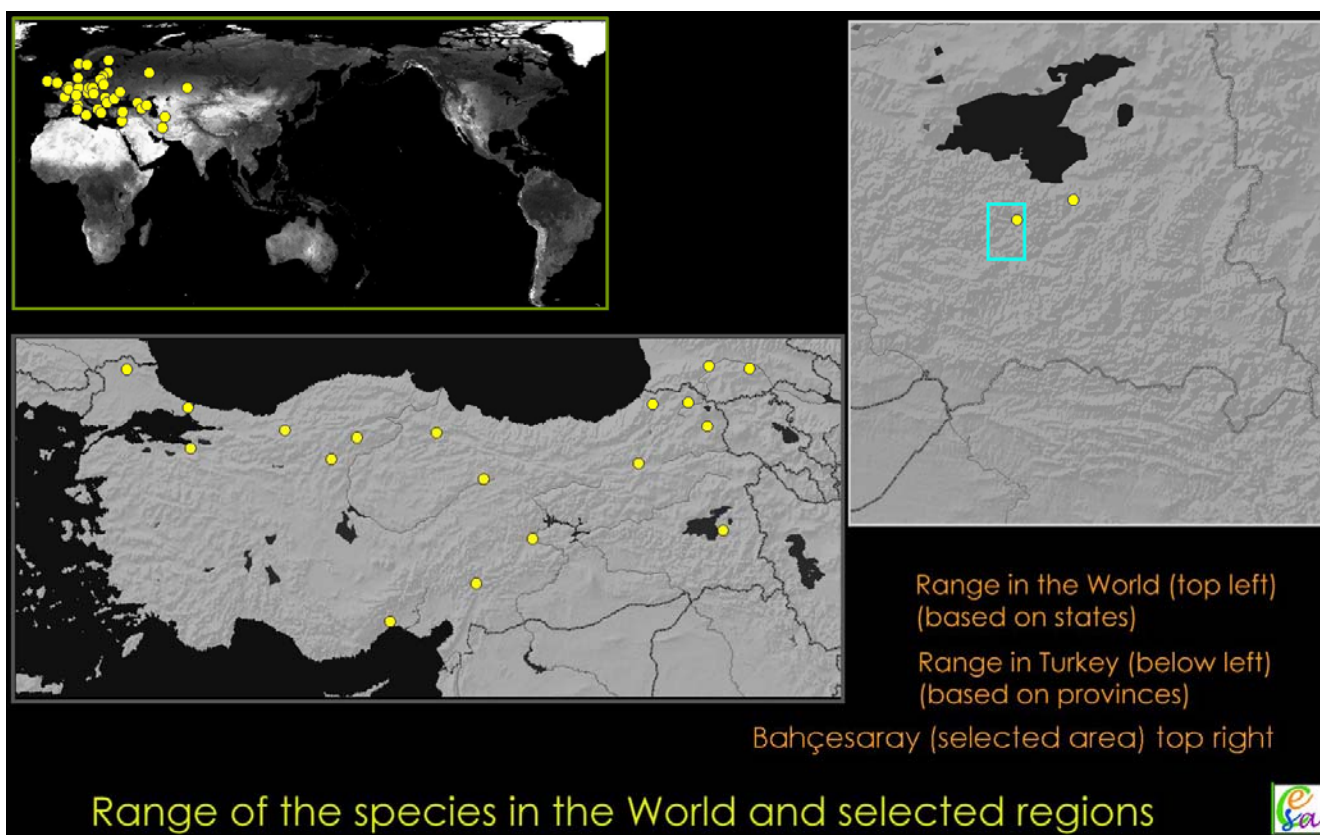
Map 5 (267) - *Euplagia quadripunctaria*



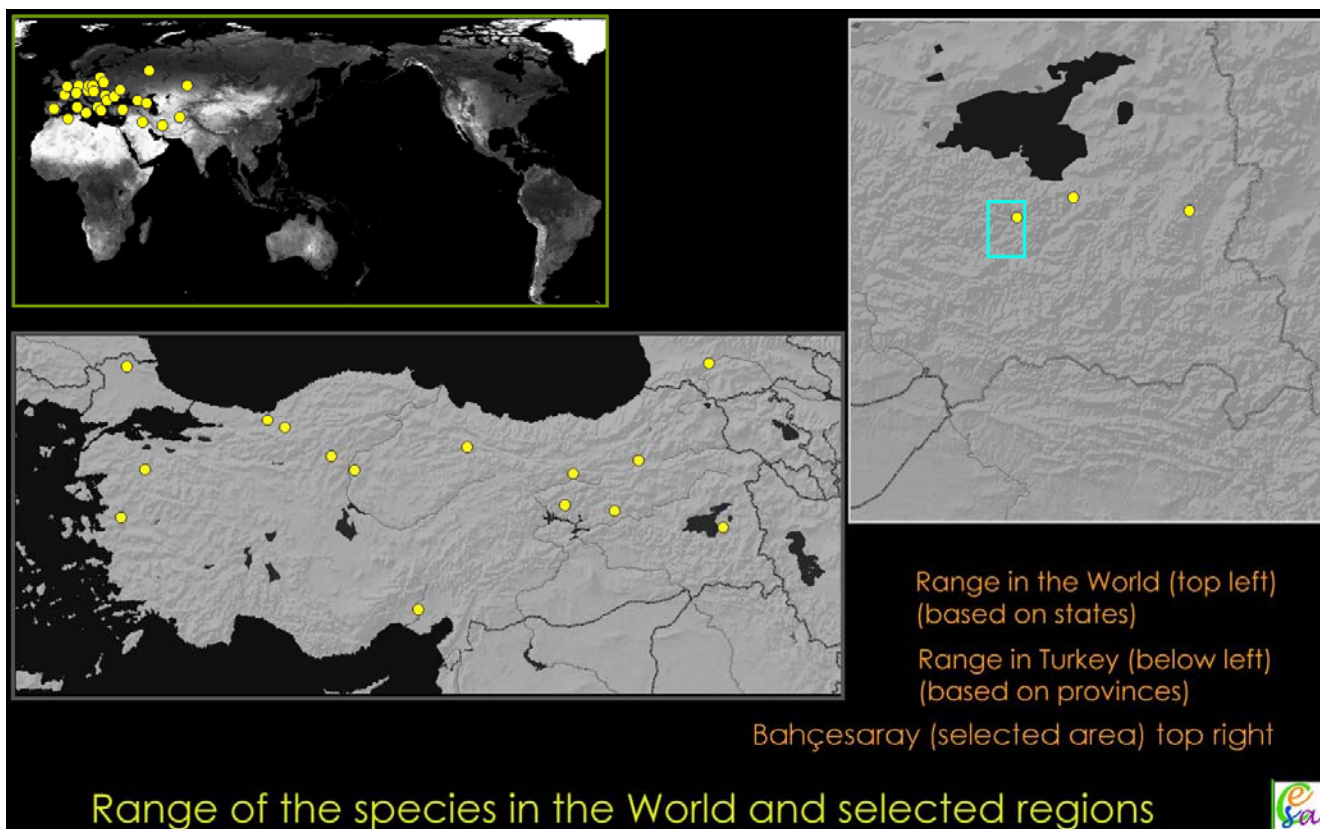
Map 6 (268) - *Euplagia splendidior*



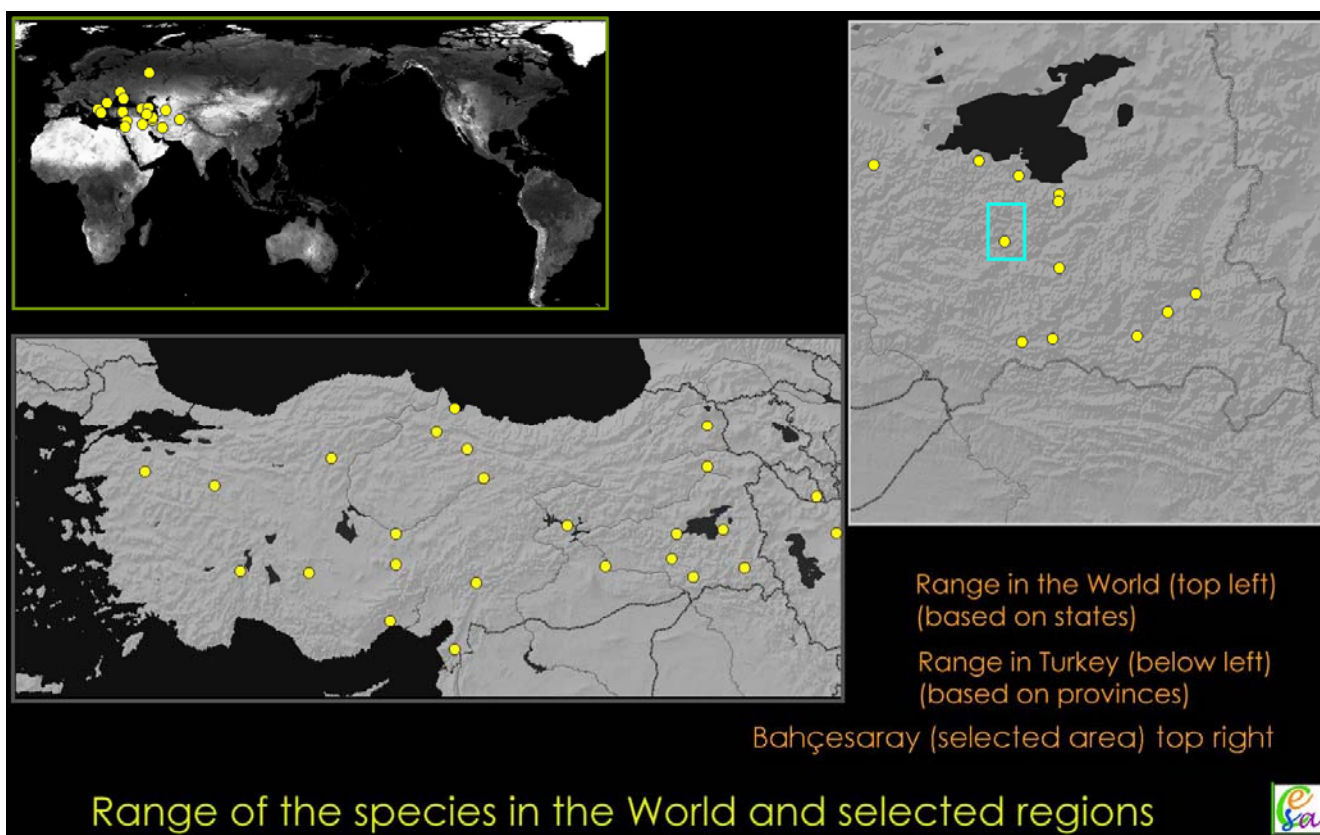
Map 7 (269) - *Lacydes spectabilis*



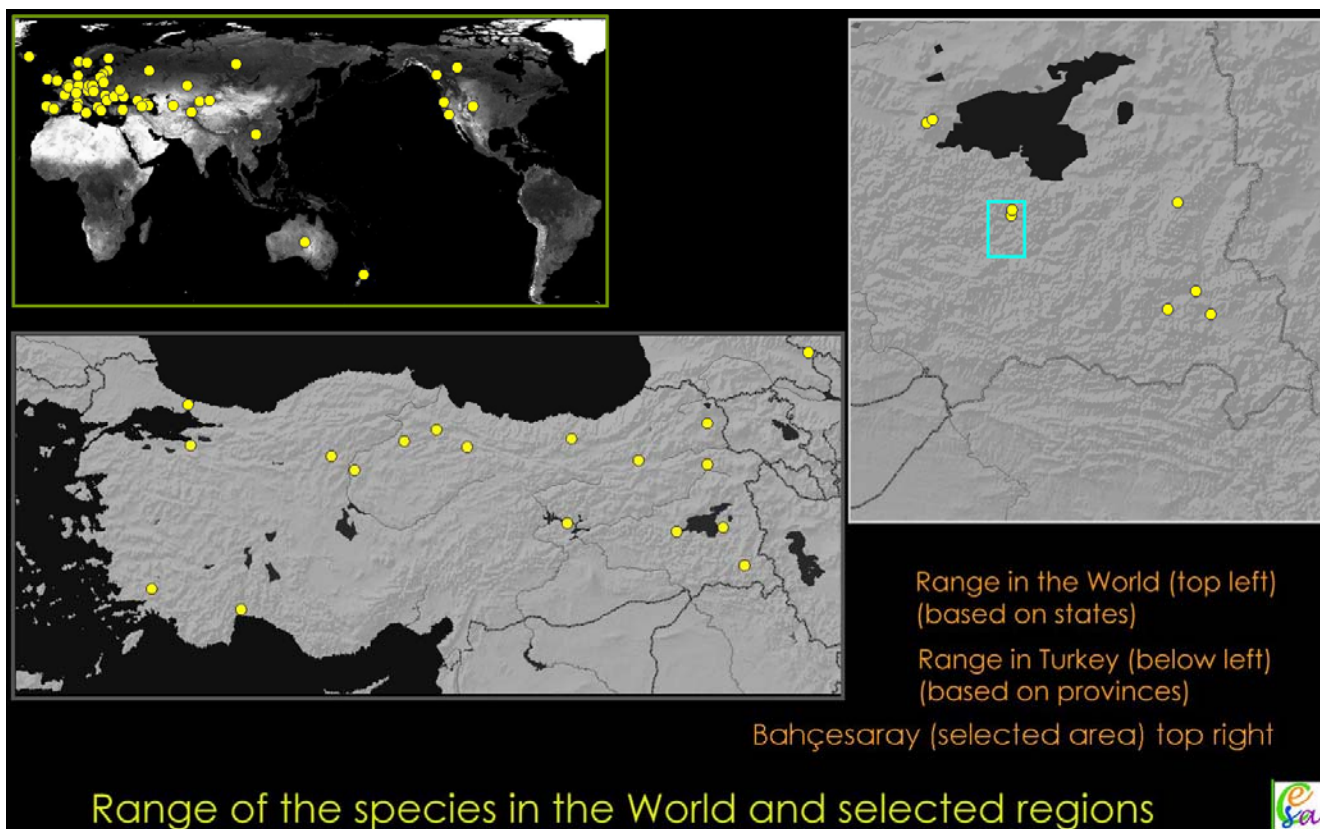
Map 8 (270) - *Manulea (s.str.) complana*



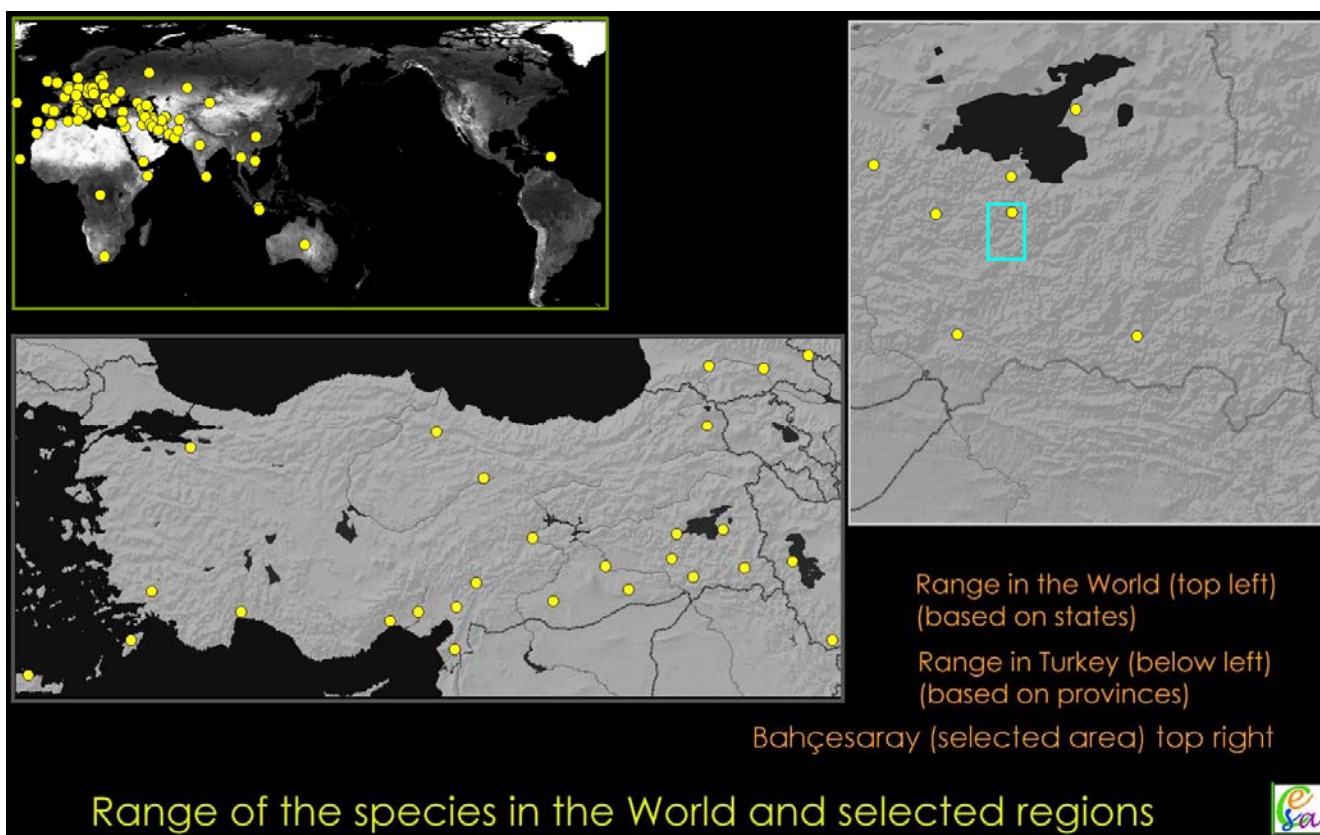
Map 9 (271) - *Manulea (s.str.) palliatella*



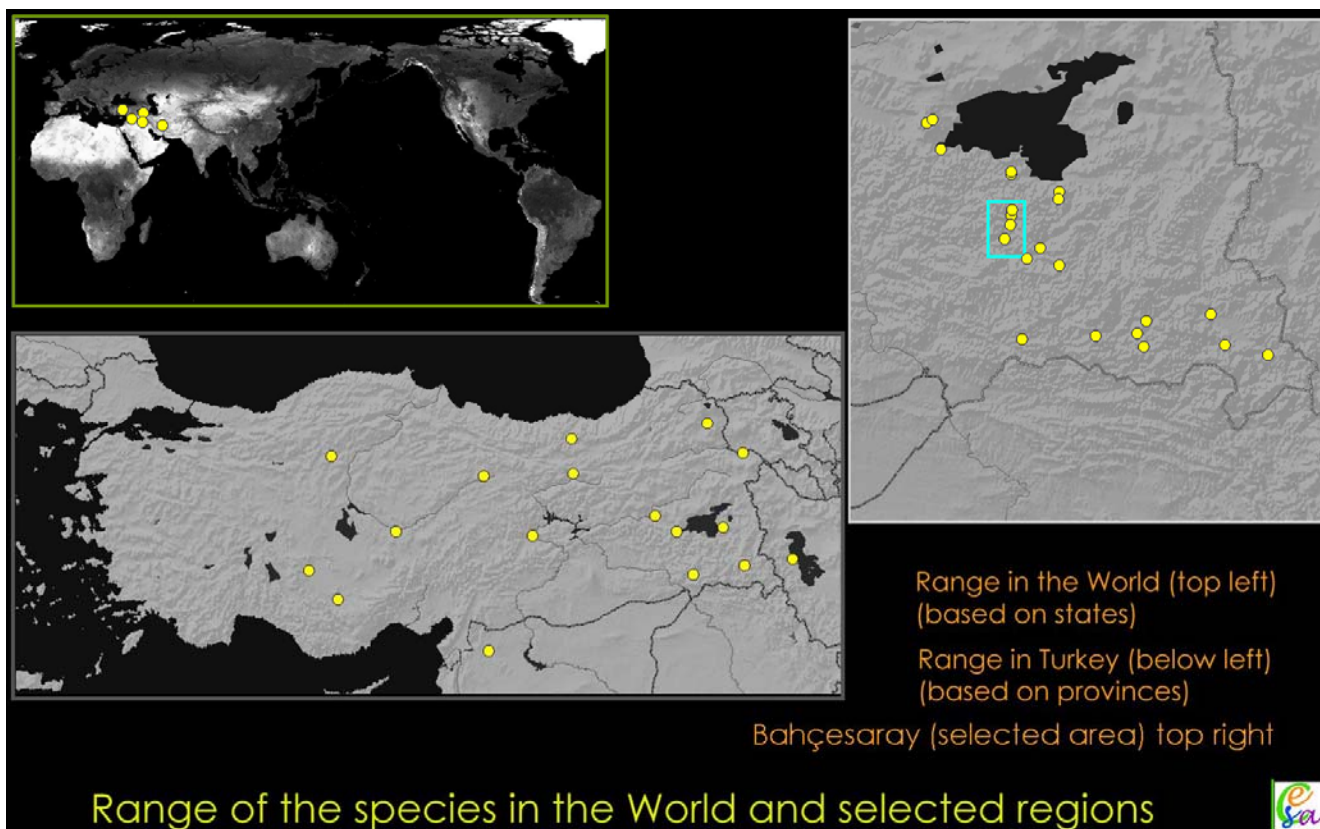
Map 10 (273) - *Phragmatobia placida*



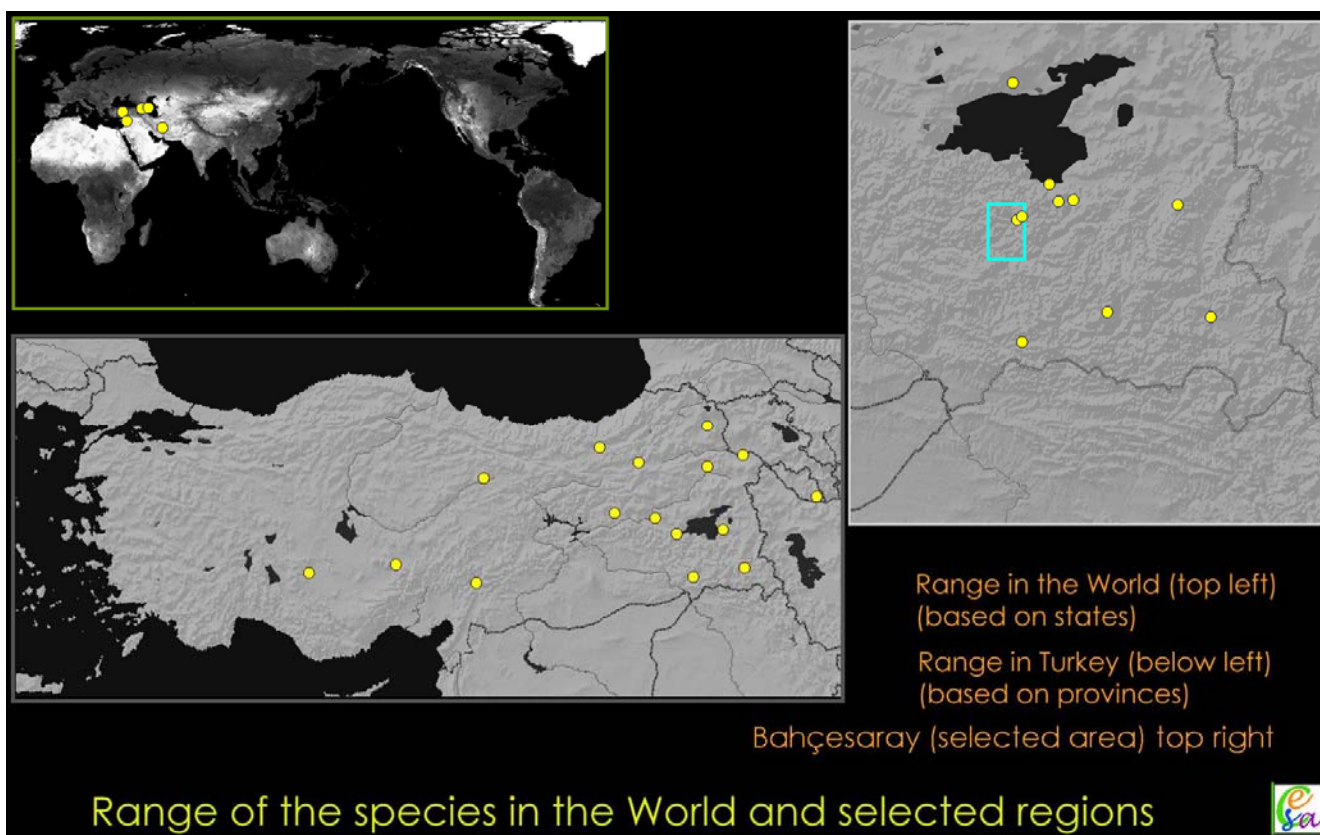
Map 11 (274) - *Tyria jacobaeae*



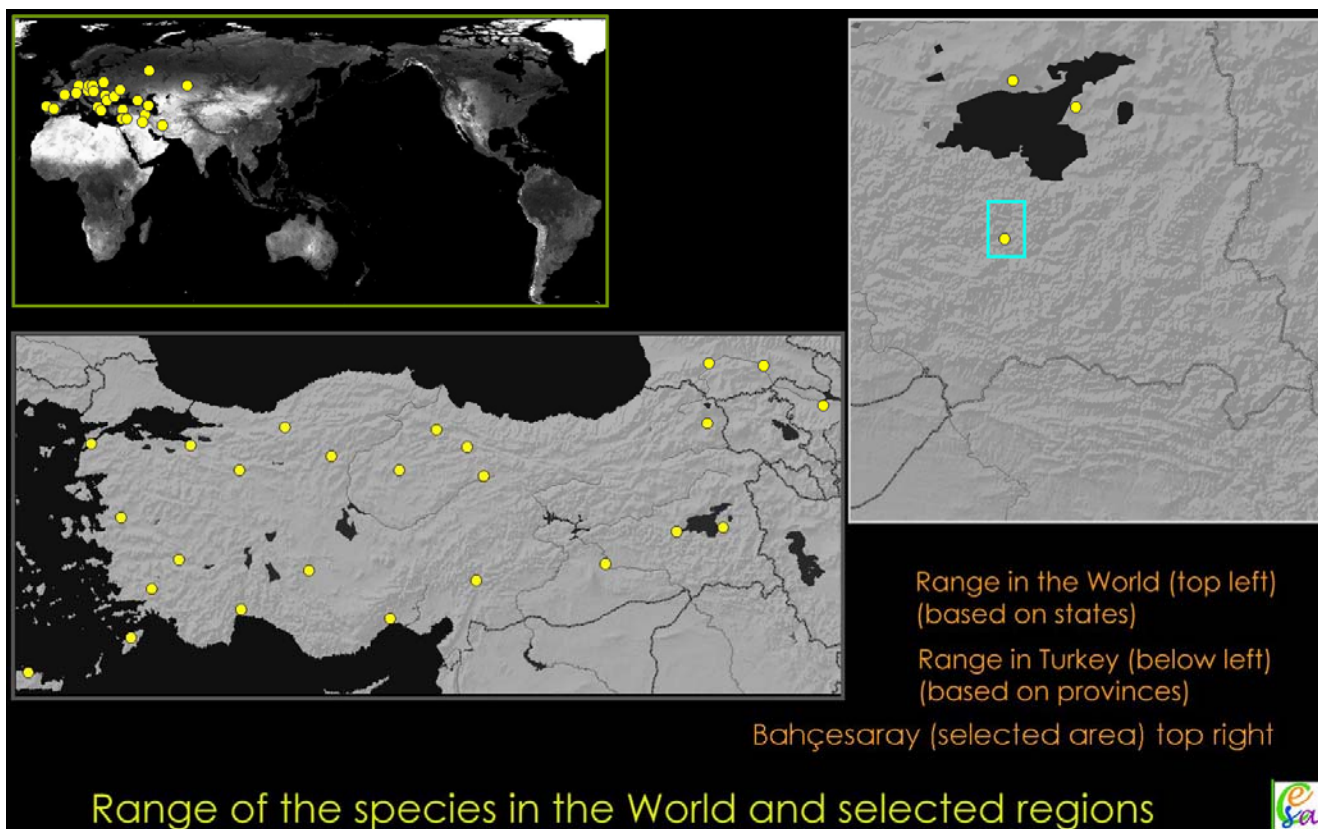
Map 12 (275) - *Utetheisa (s.str.) pulchella*



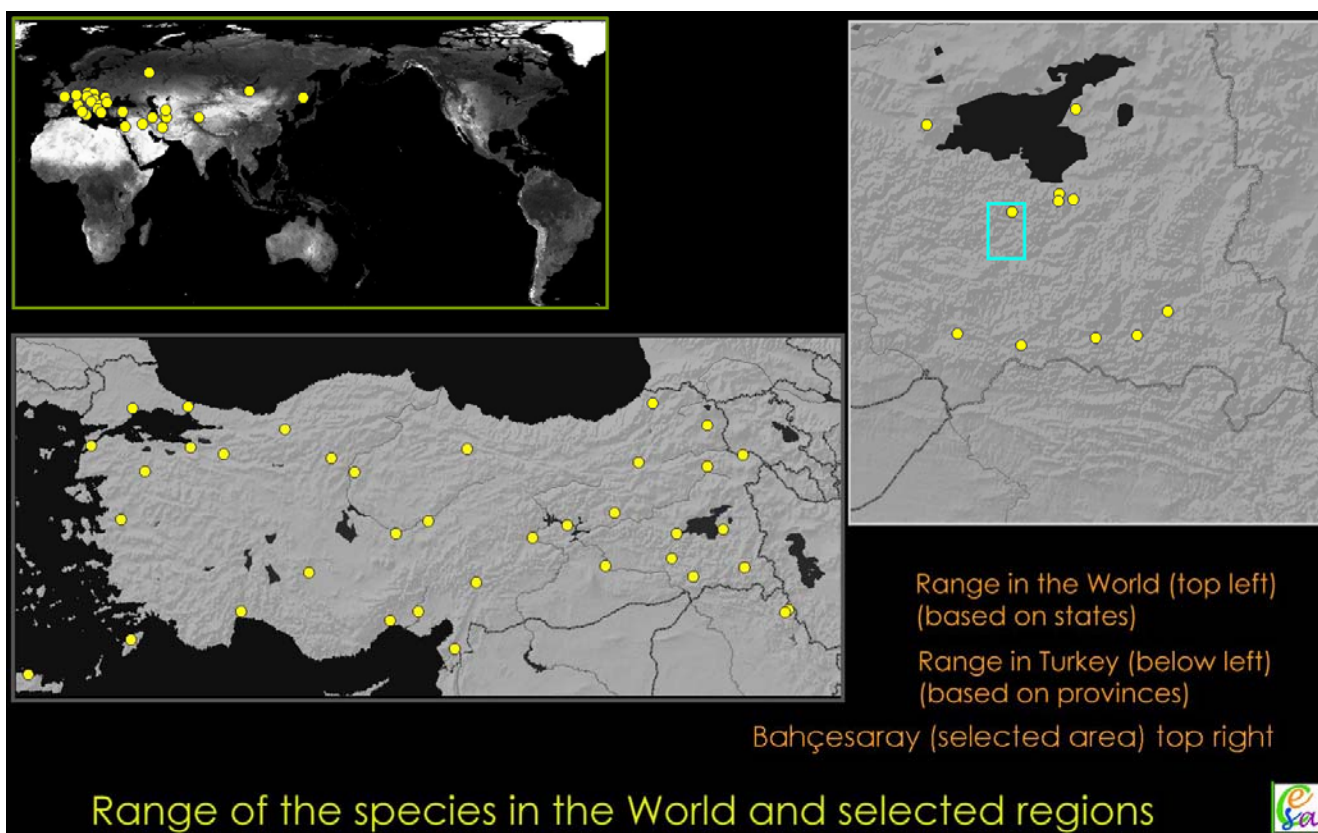
Map 13 (276) - *Axia (Epicimelia) theresiae*



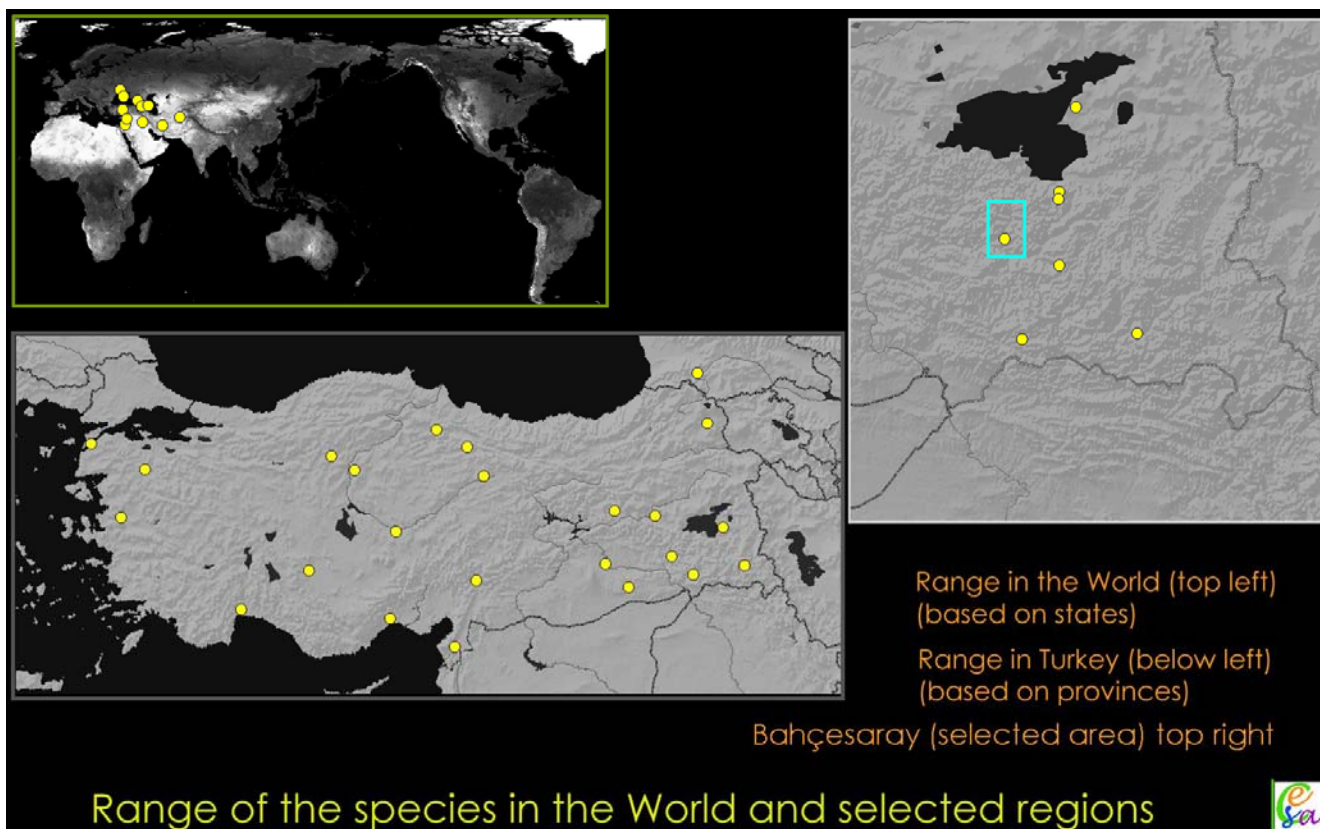
Map 14 (277) - *Cossulus argentatus*



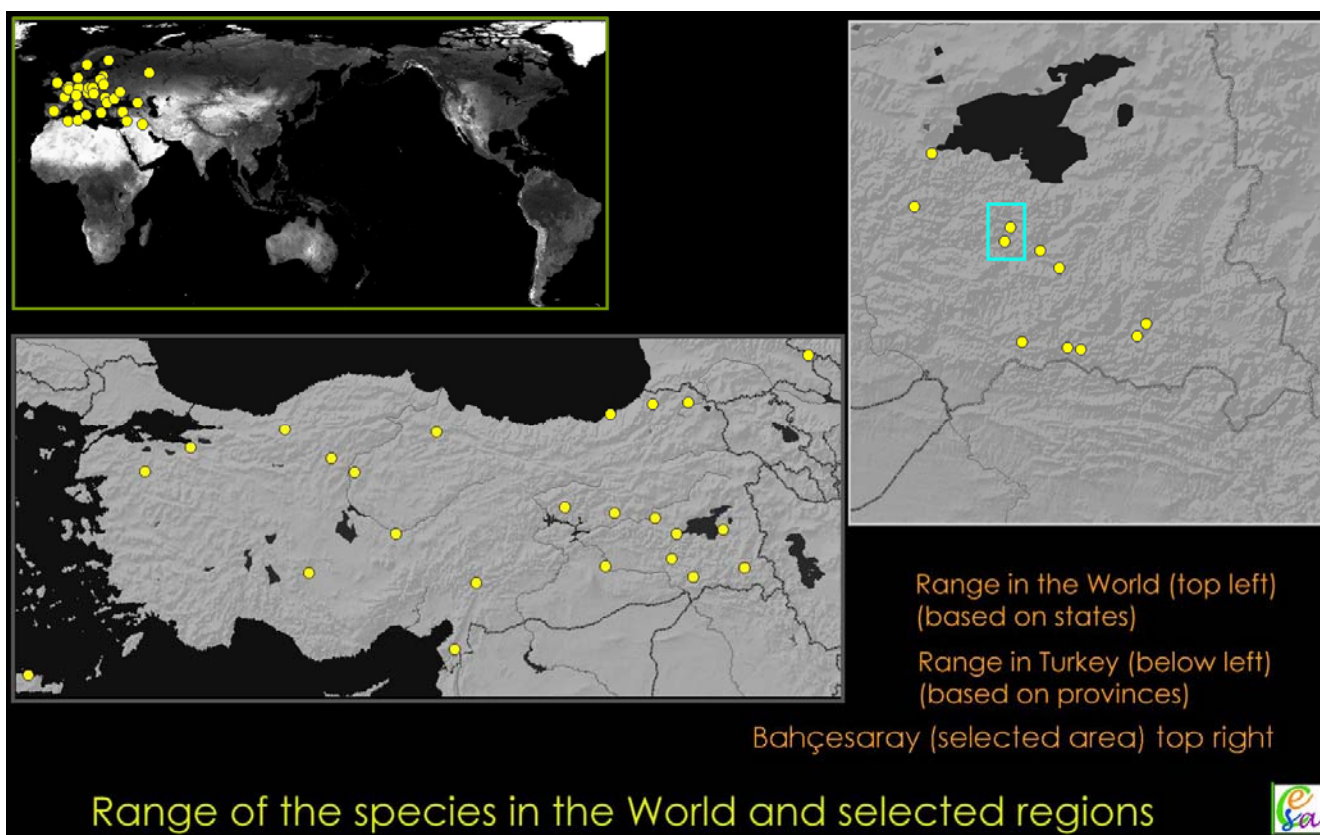
Map 15 (278) - *Dyspessa ulula*



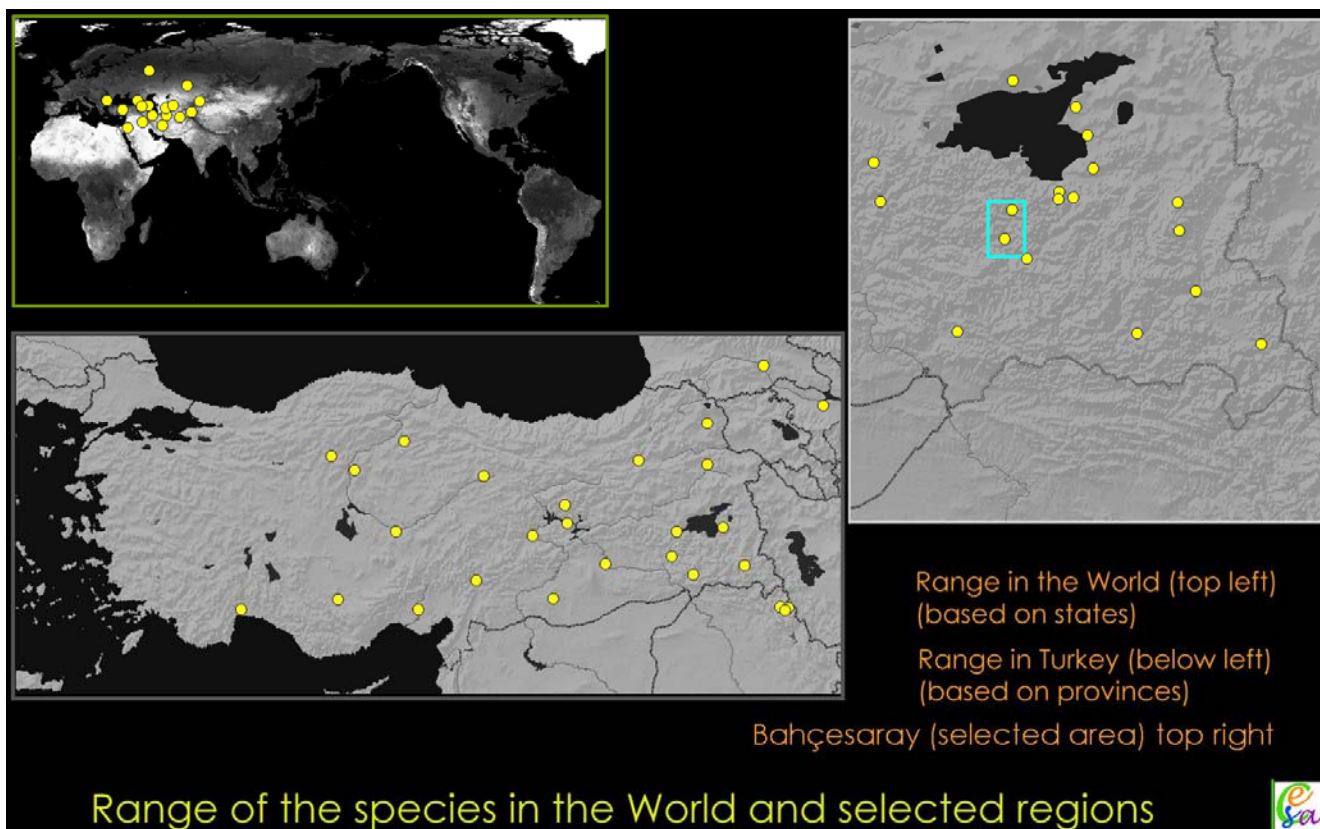
Map 16 (279) - *Dysauxes (s.str.) famula*



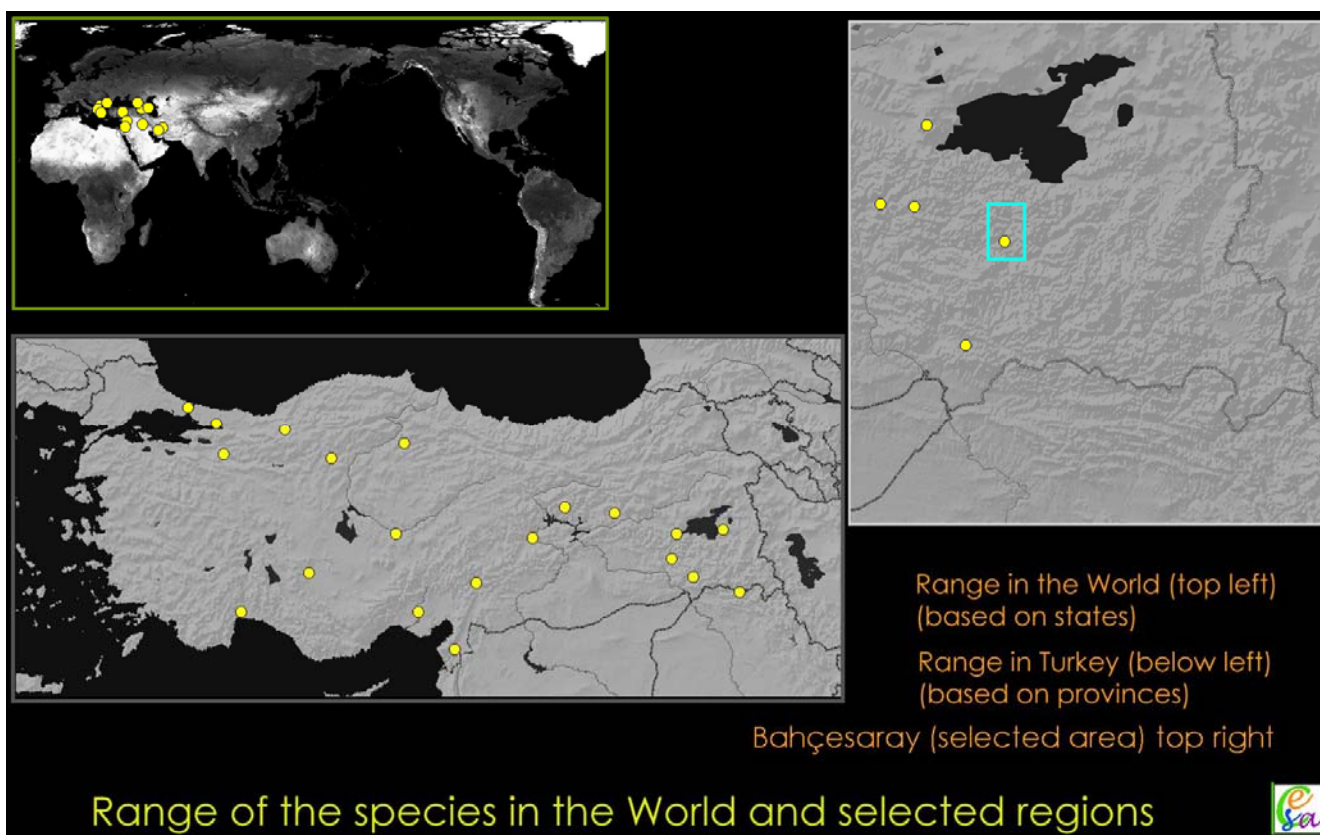
Map 17 (280) - *Cilix asiatica*



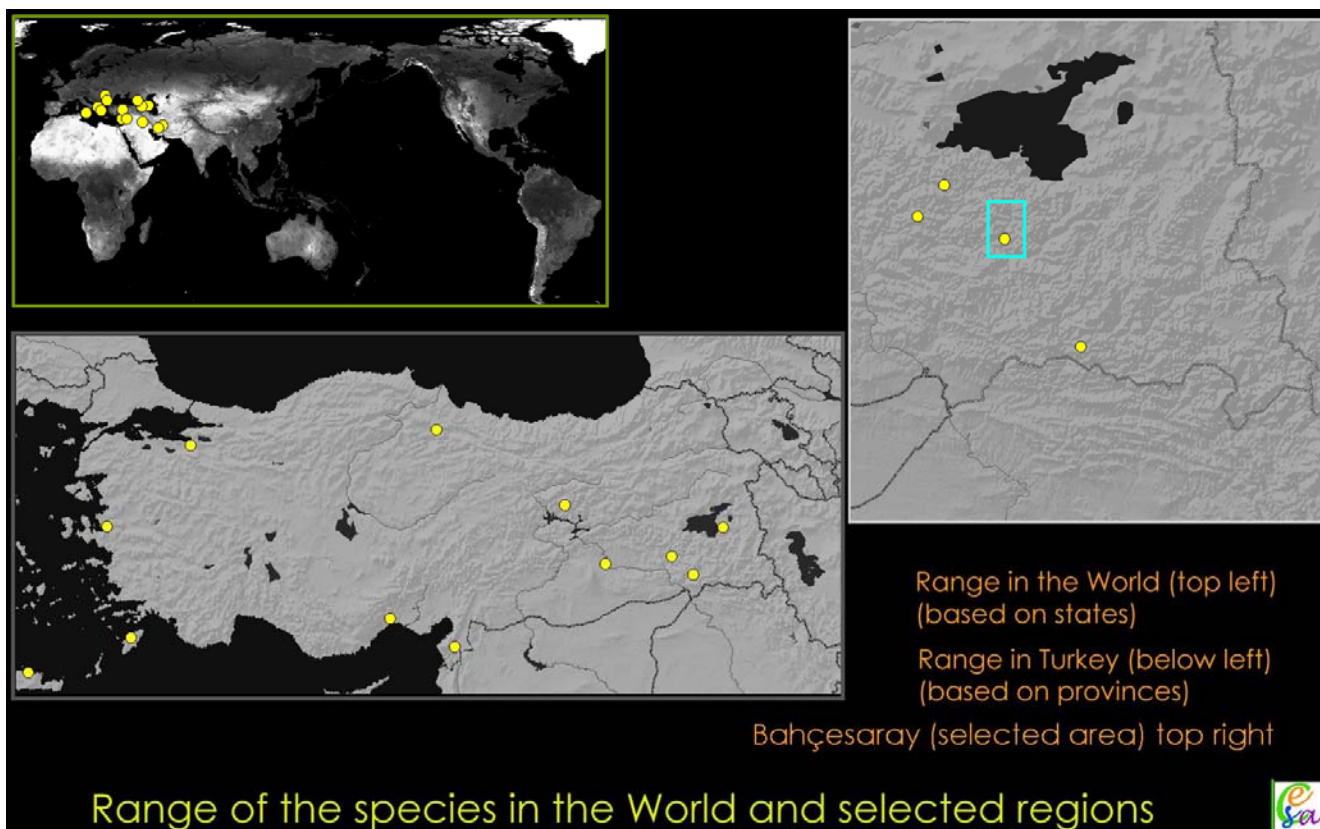
Map 18 (281) - *Watsonalla binaria*



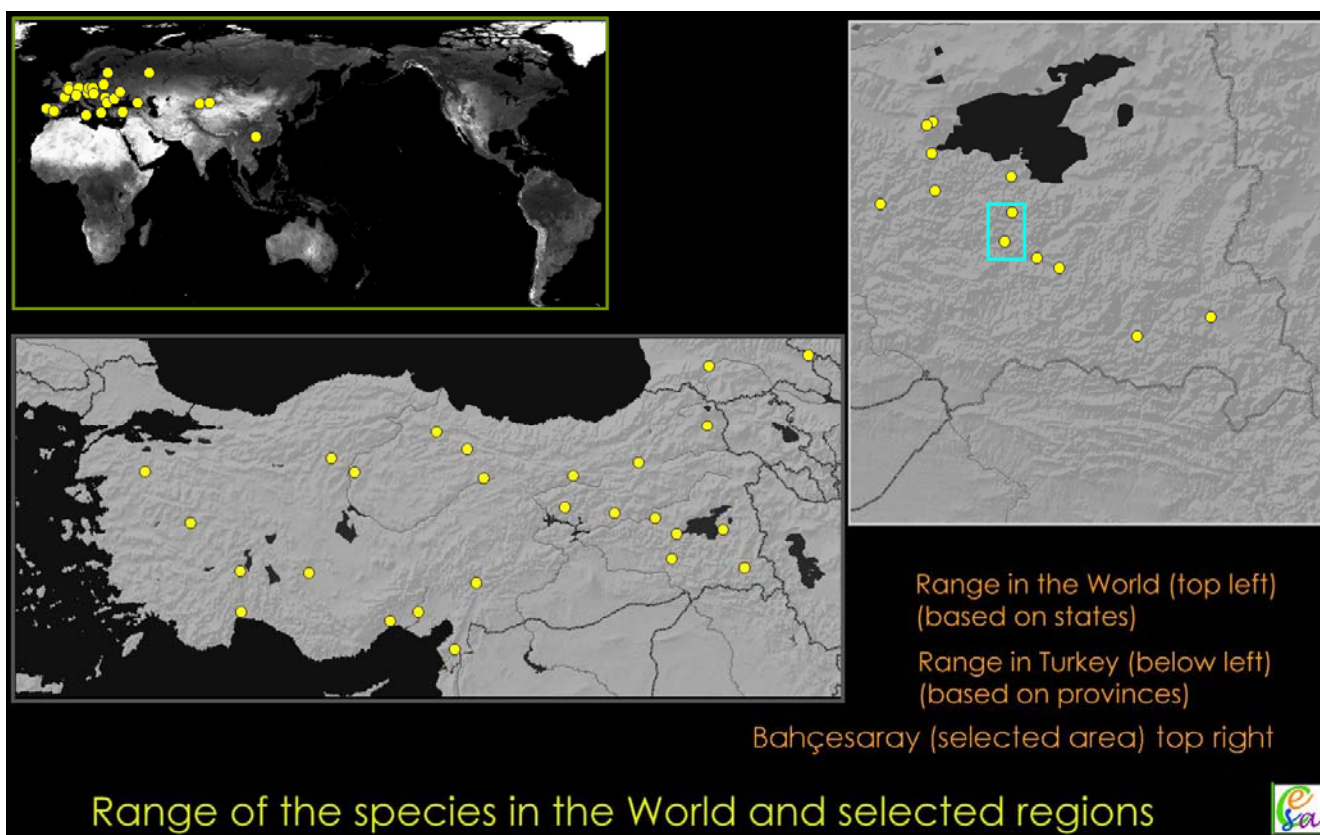
Map 19 (282) - *Lasiocampa eversmanni*



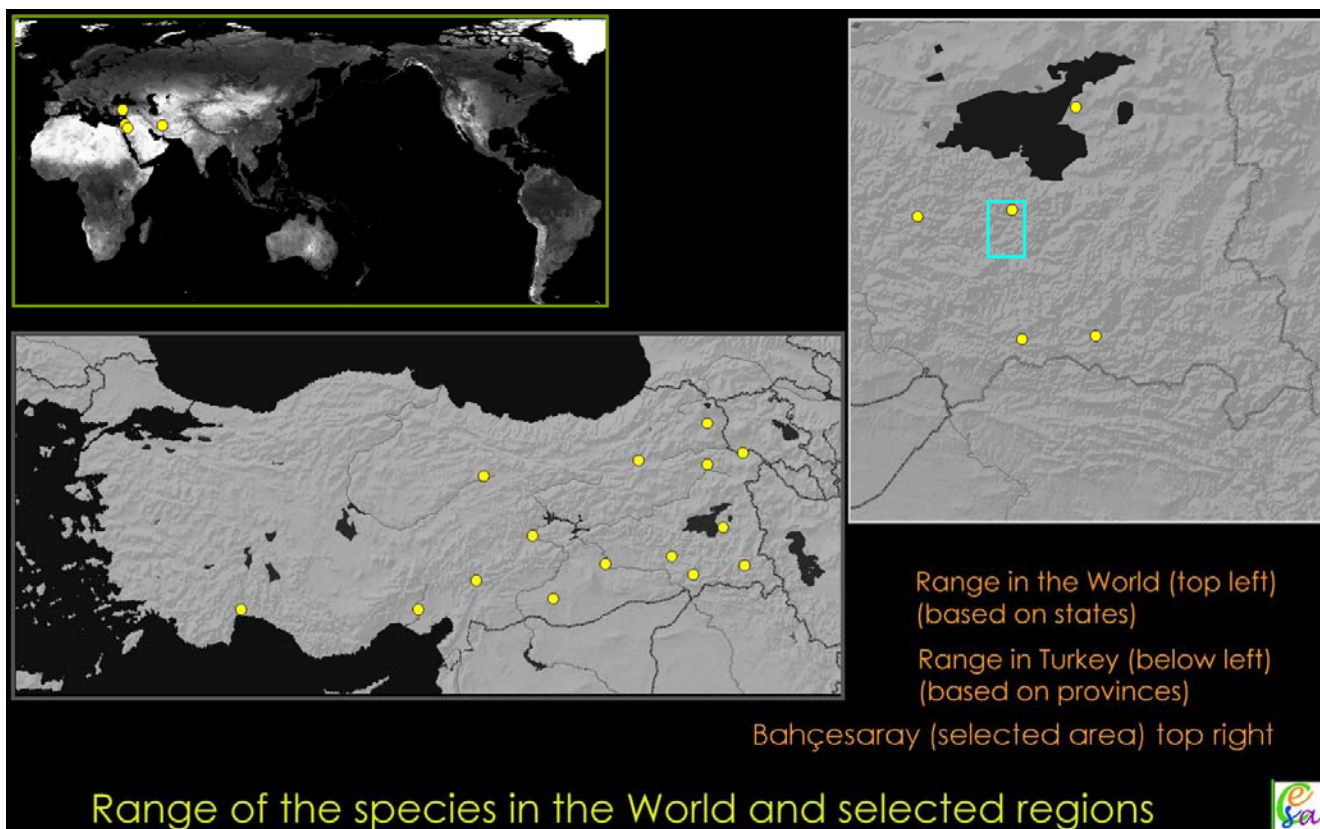
Map 20 (283) - *Lasiocampa grandis*



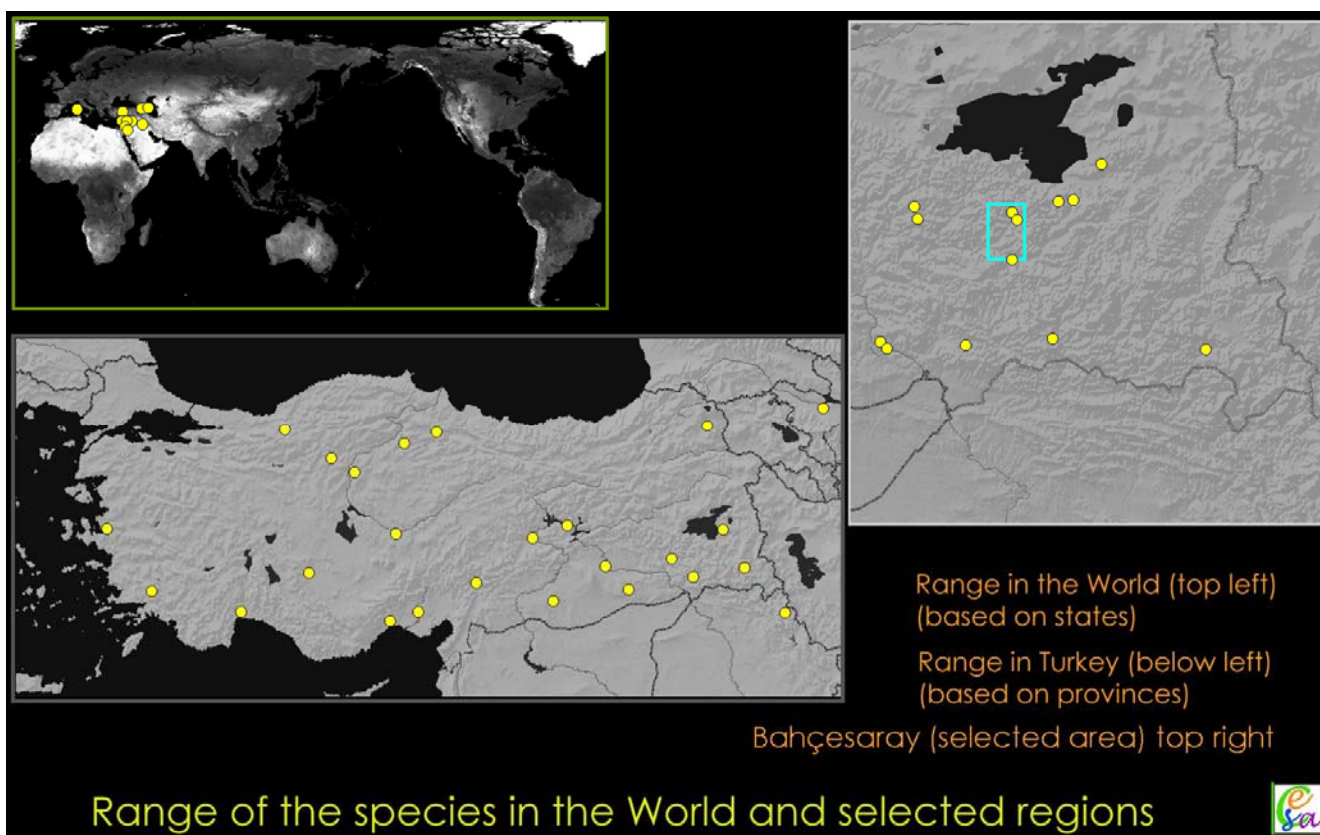
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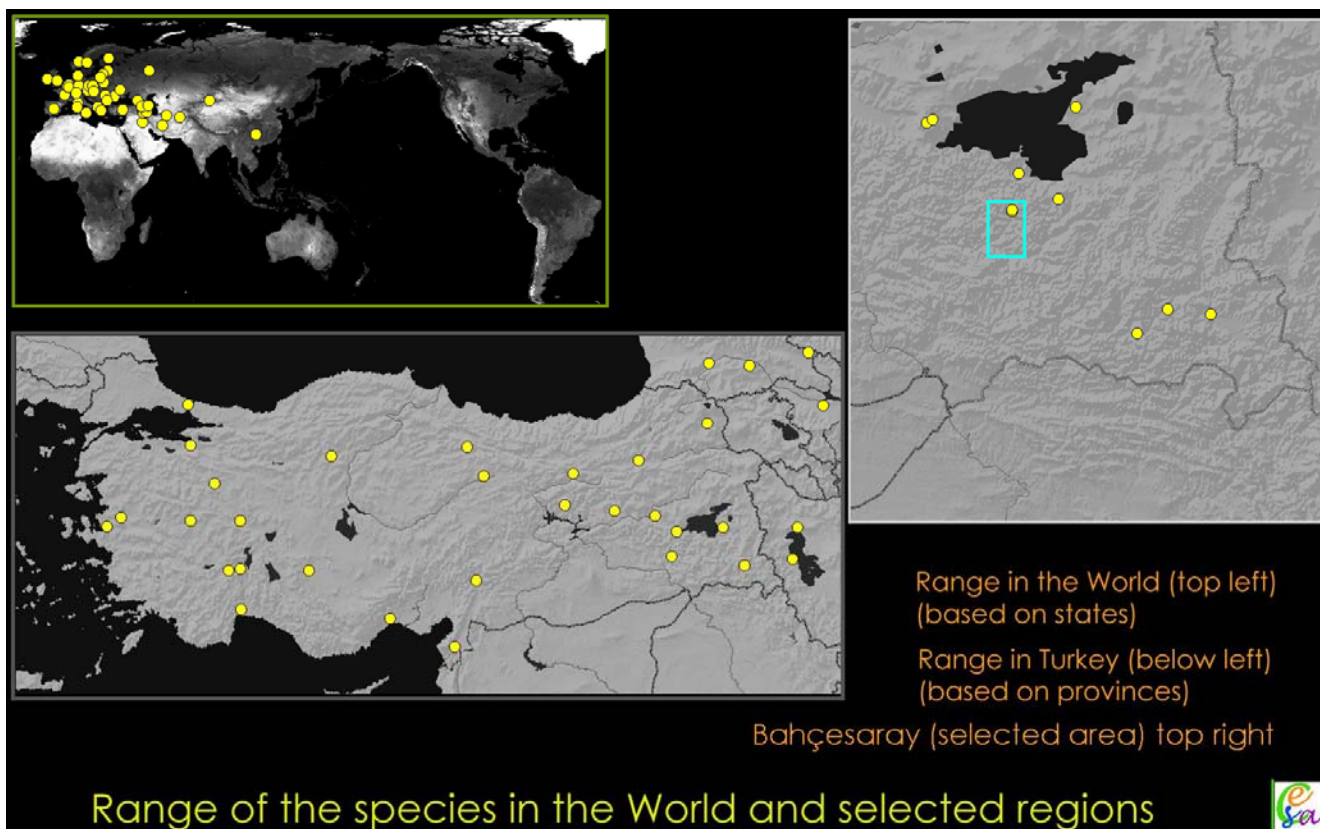
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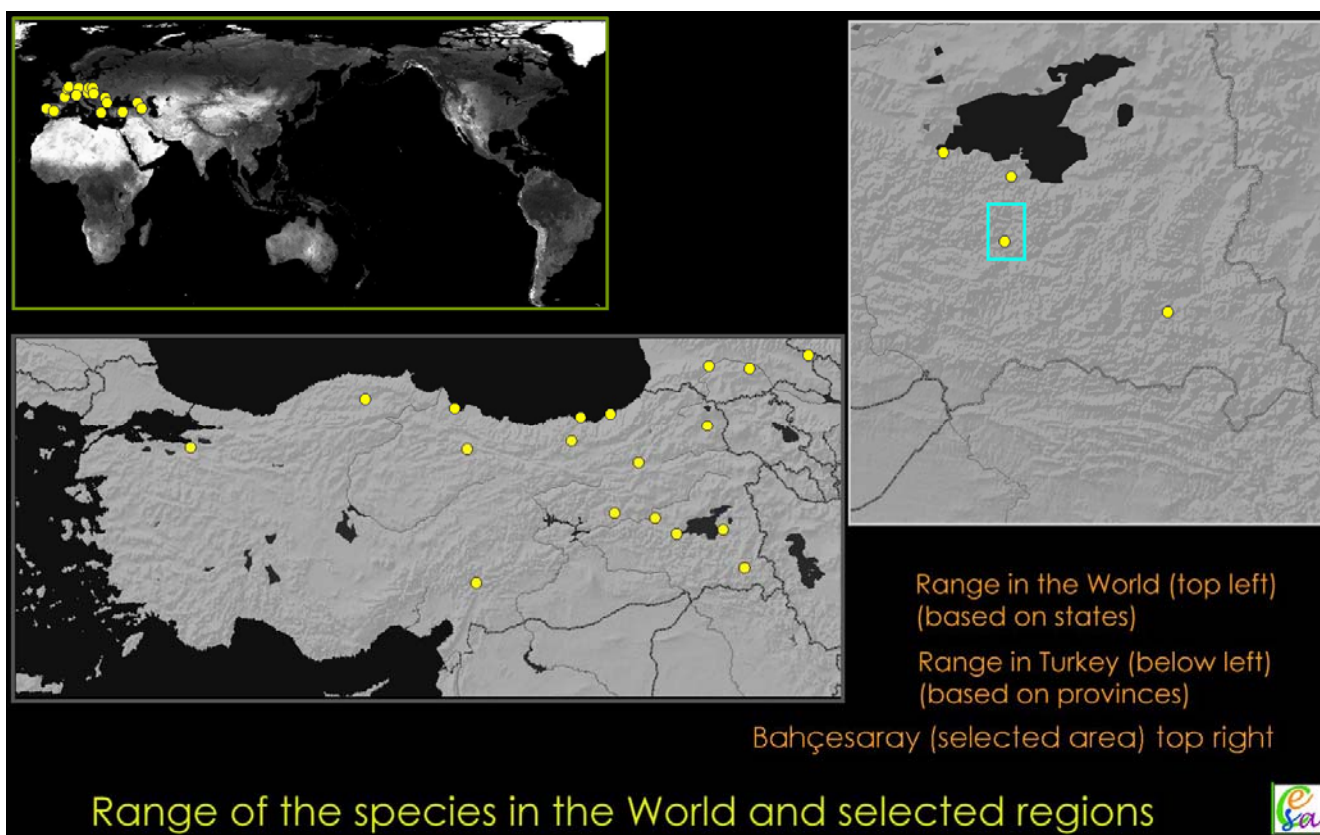
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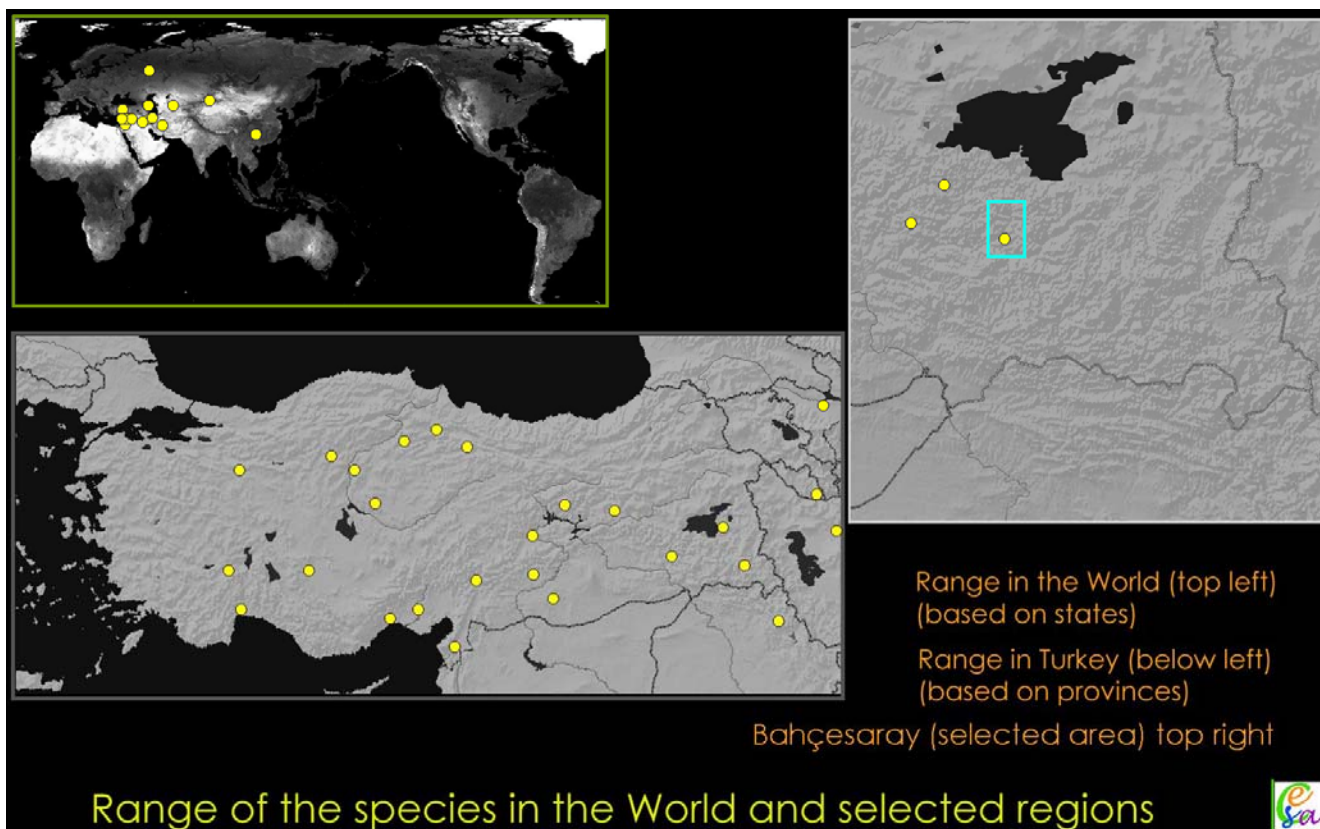
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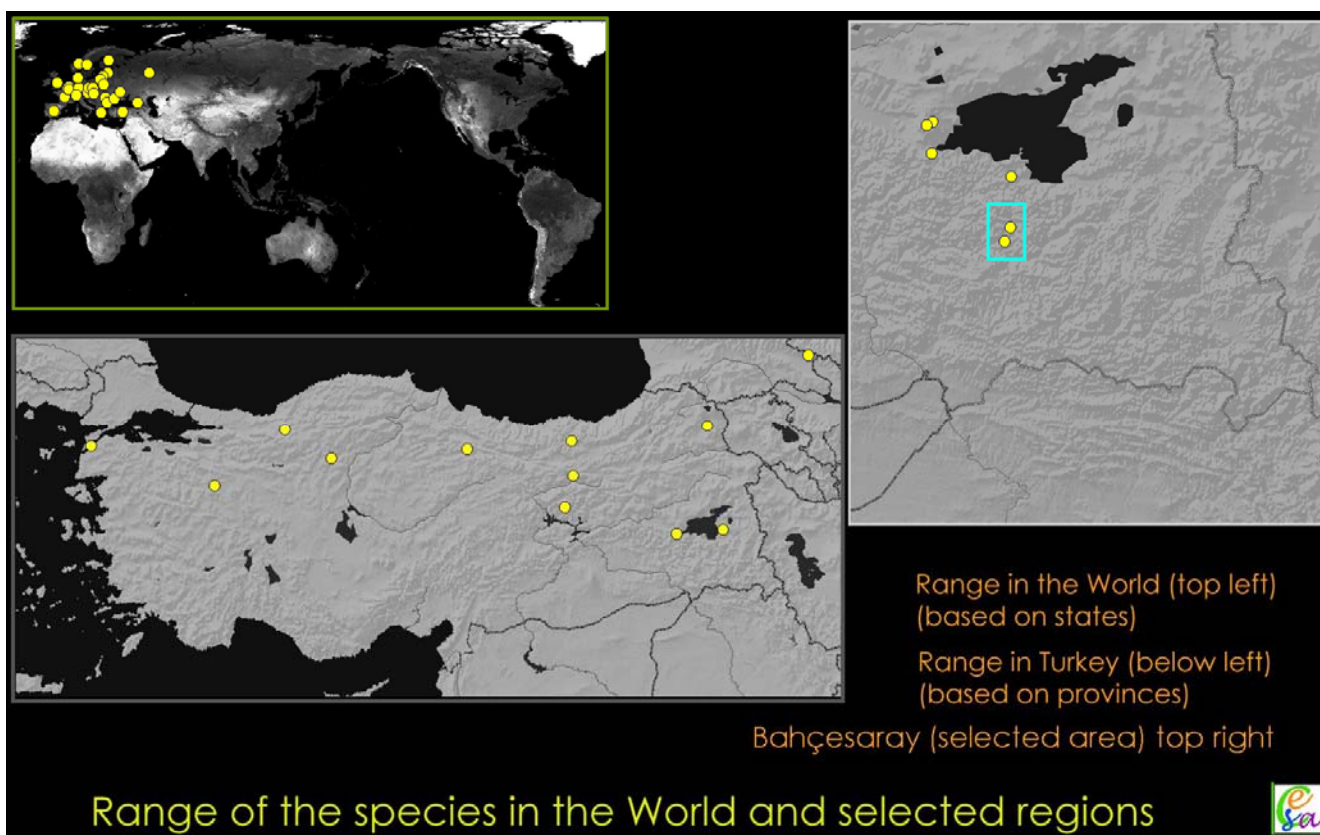
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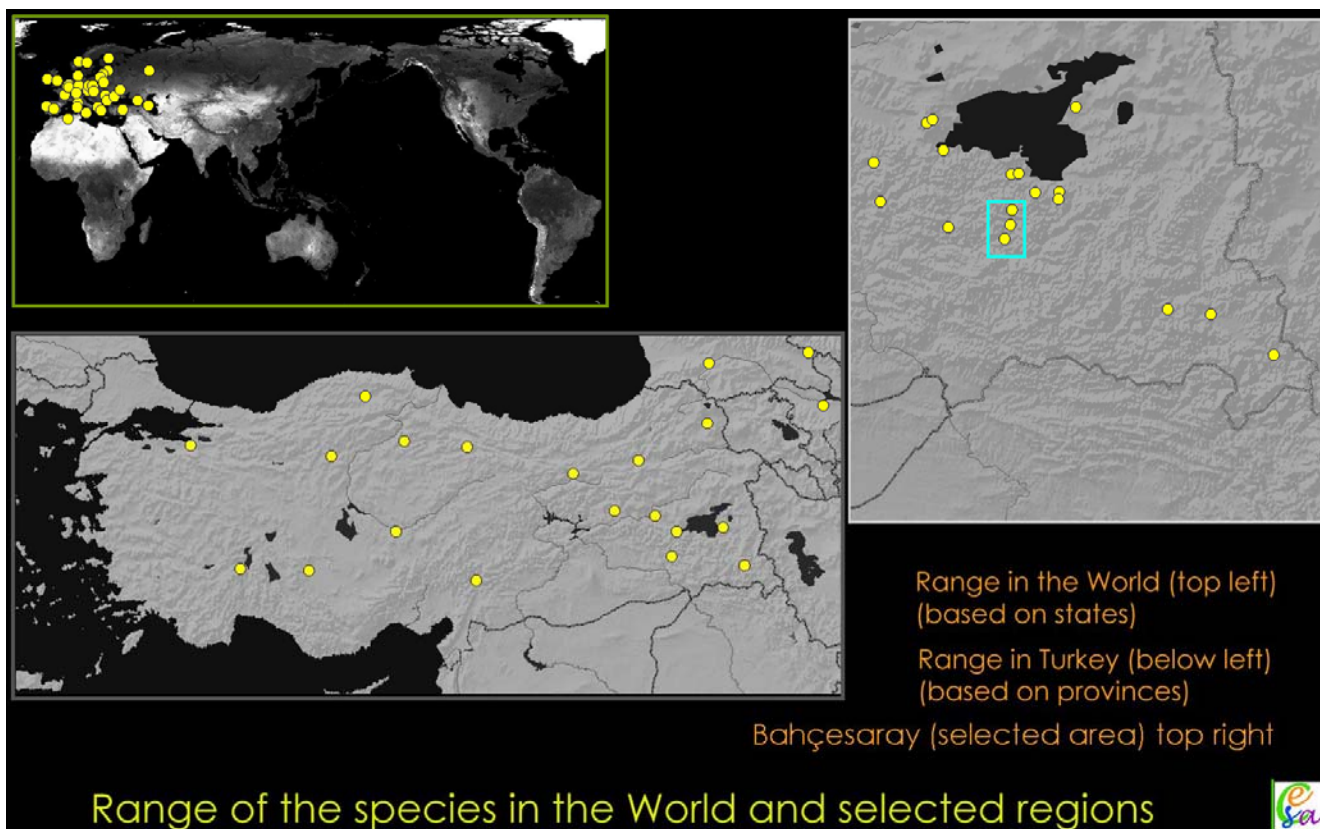
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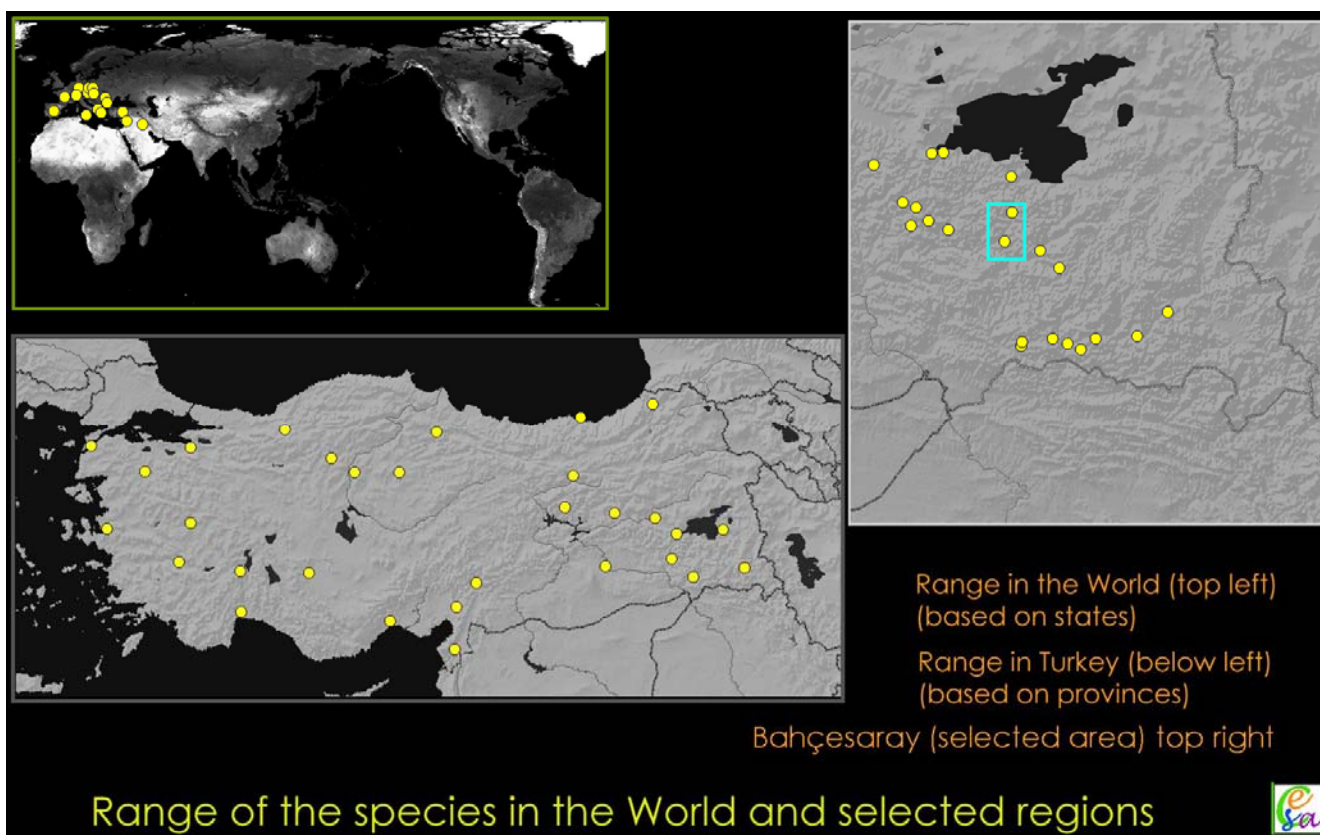
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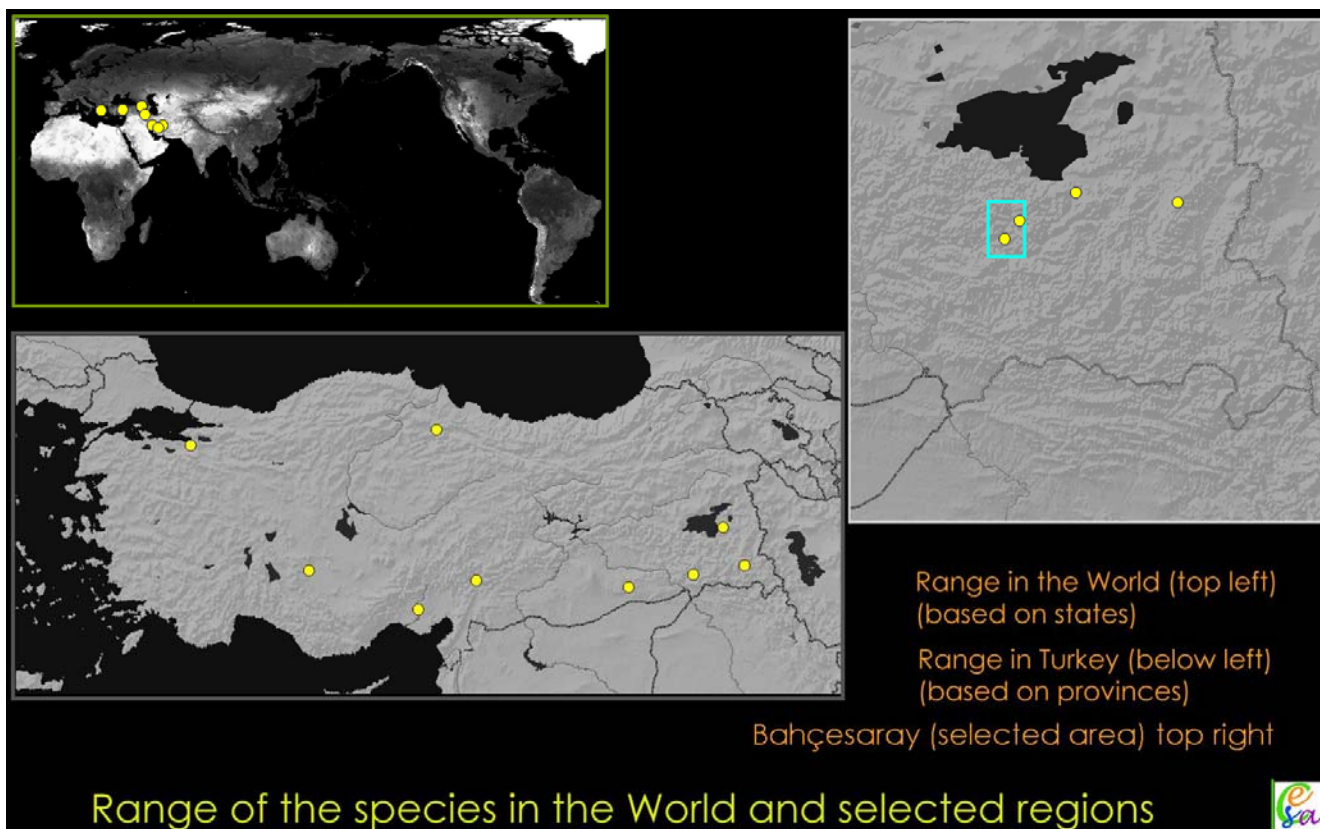
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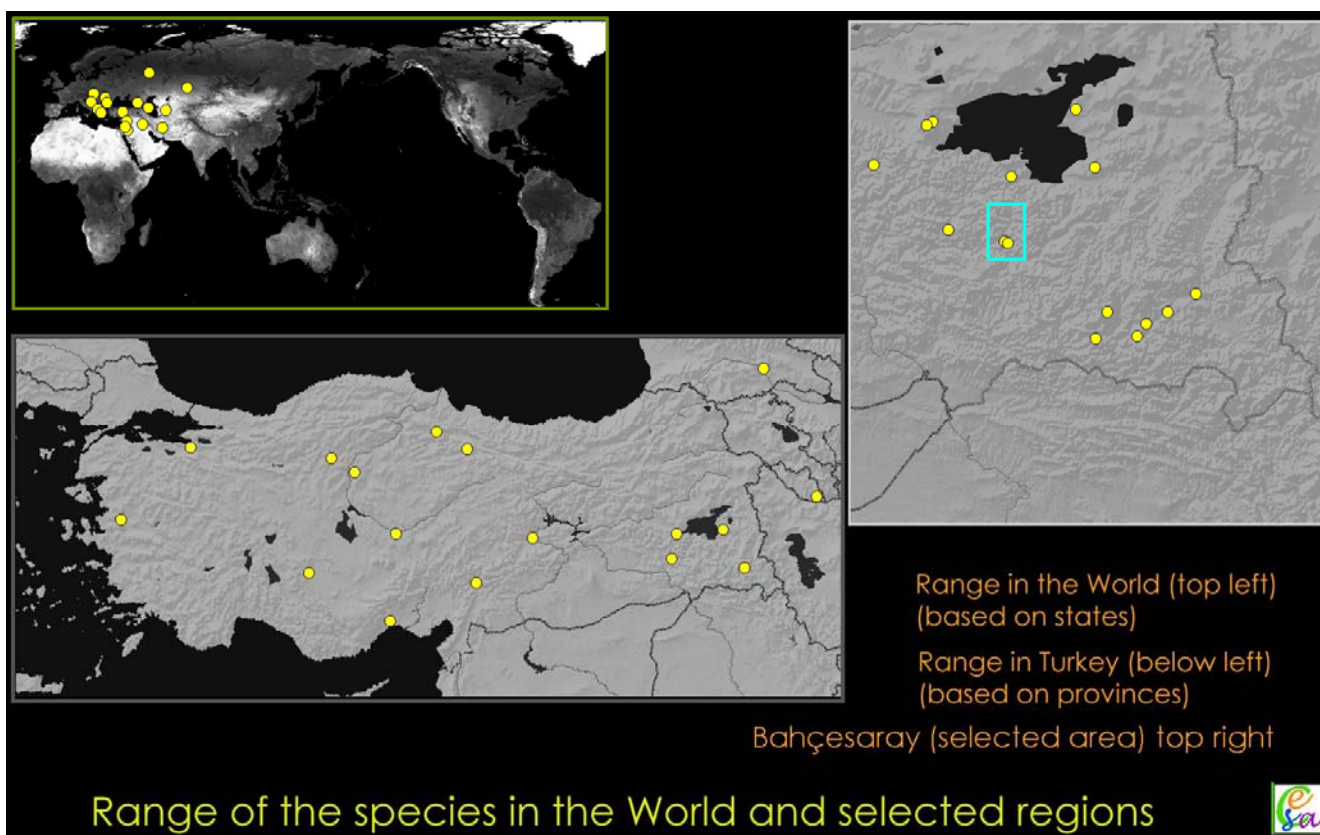
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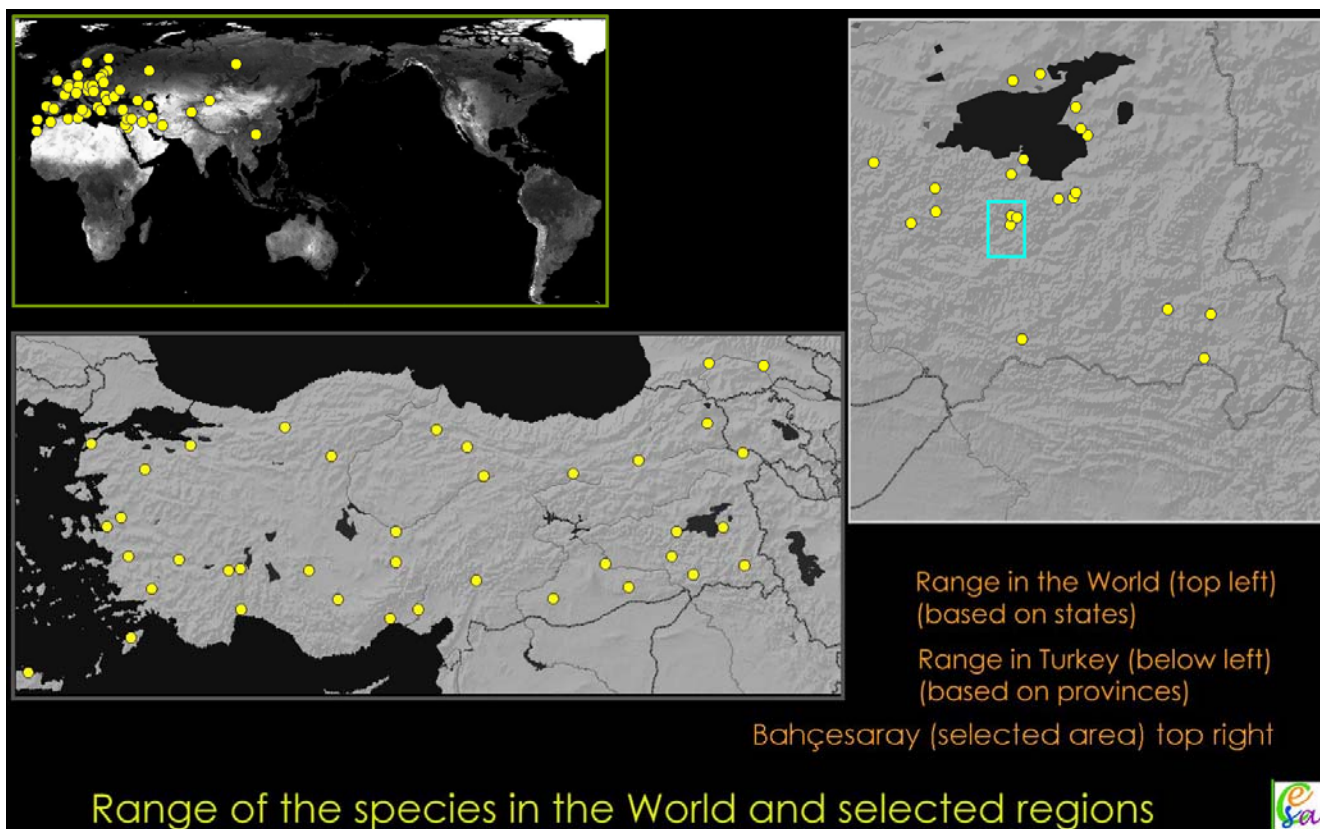
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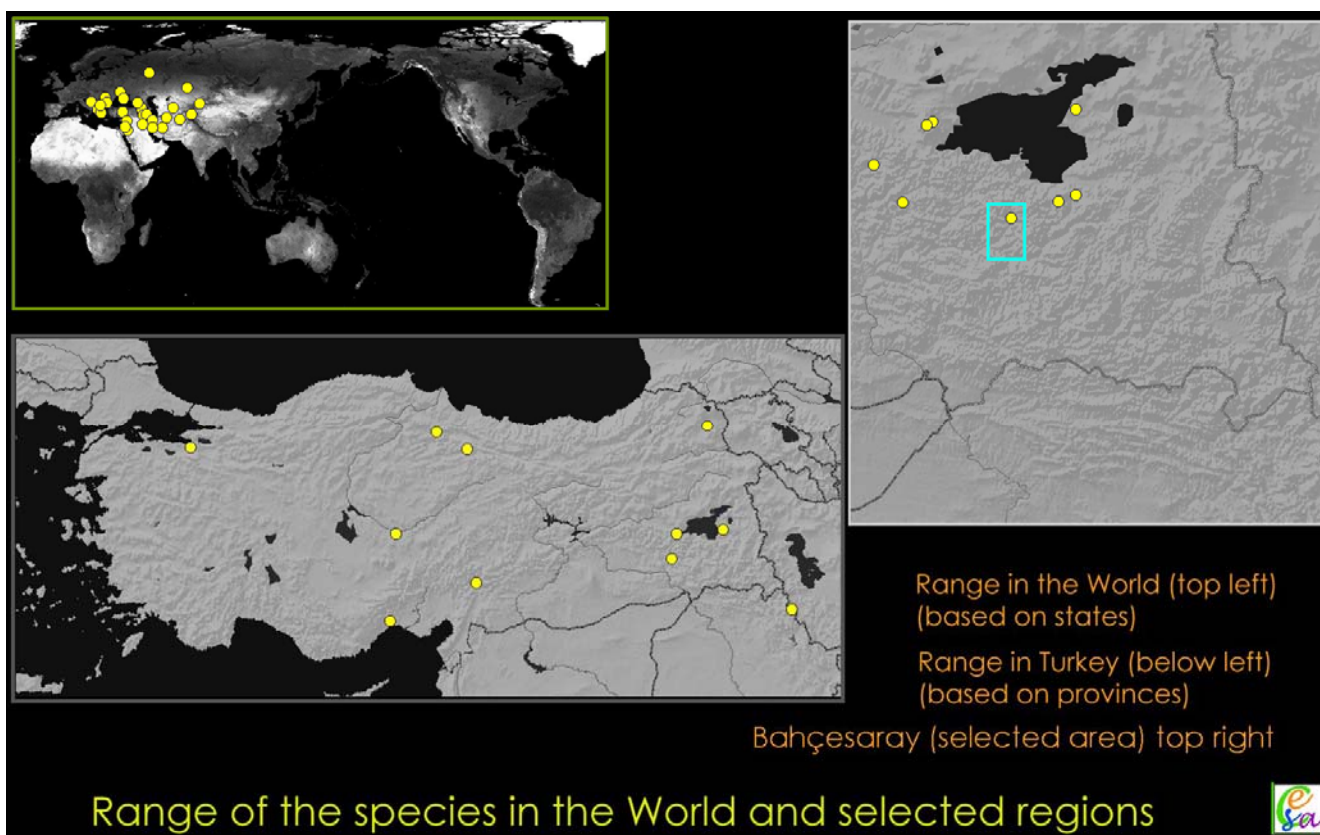
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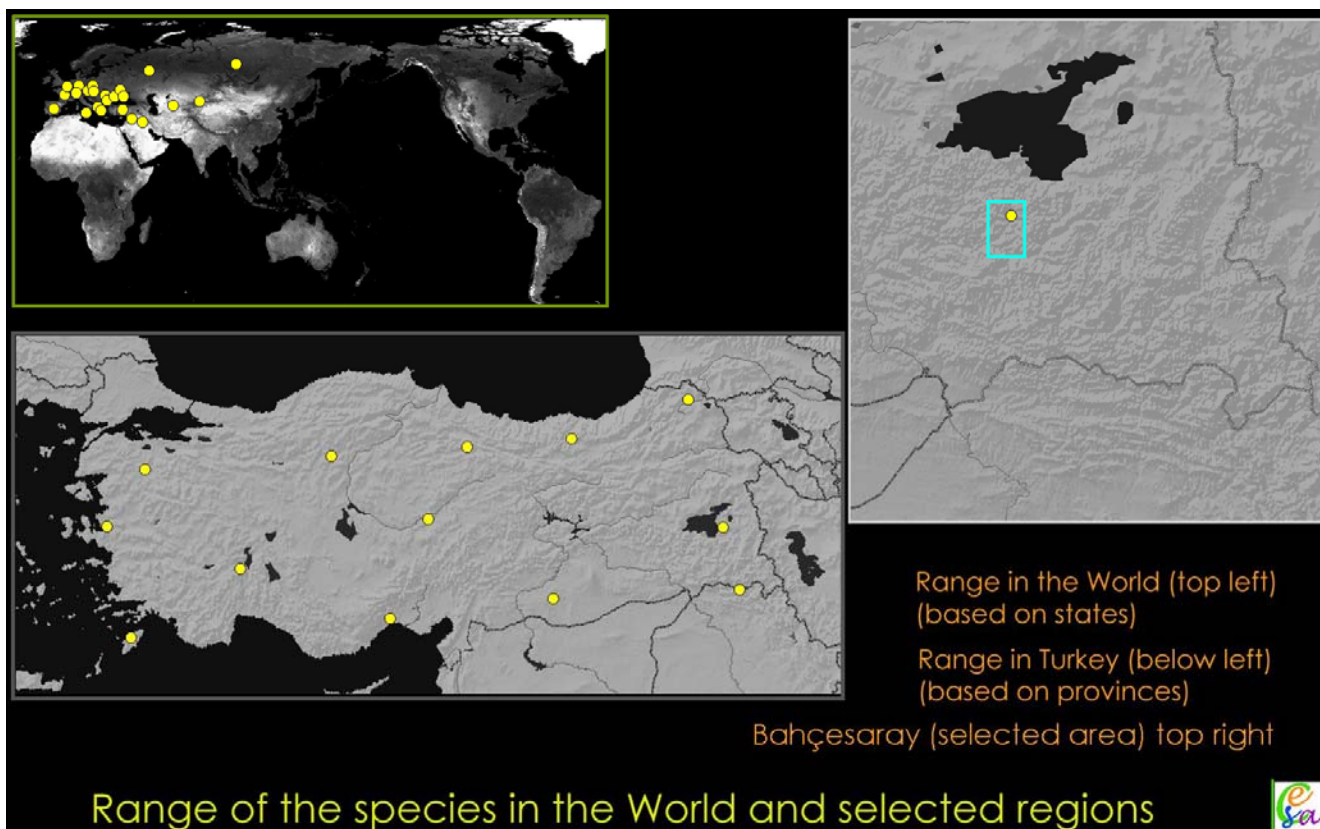
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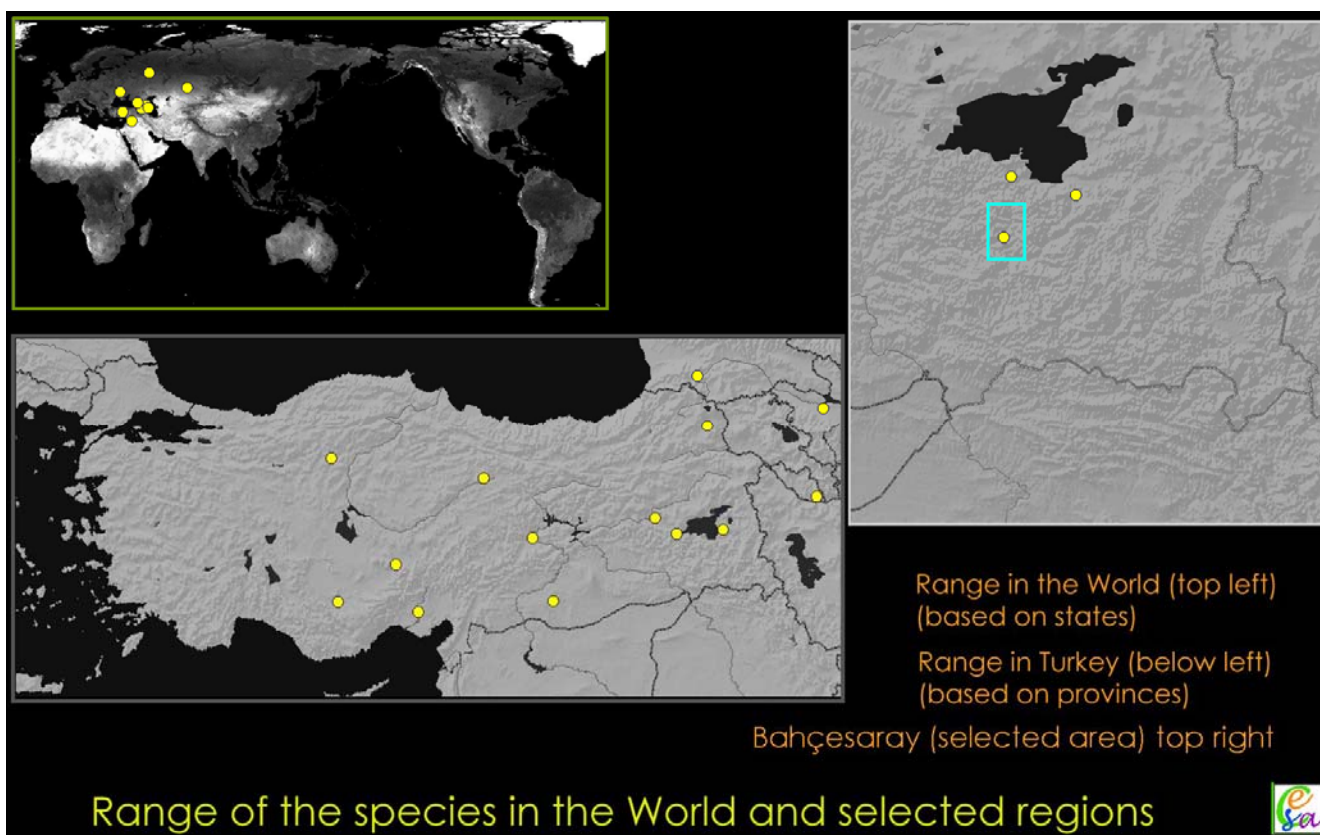
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